Manual Test Plan for cs242-assignment2.2

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Environment setup

- Python 3.8.10
- Pymongo 3.12.0
- bs4 4.10.0
- requests 2.22.0
- Chrome Version 86.0.4240.111

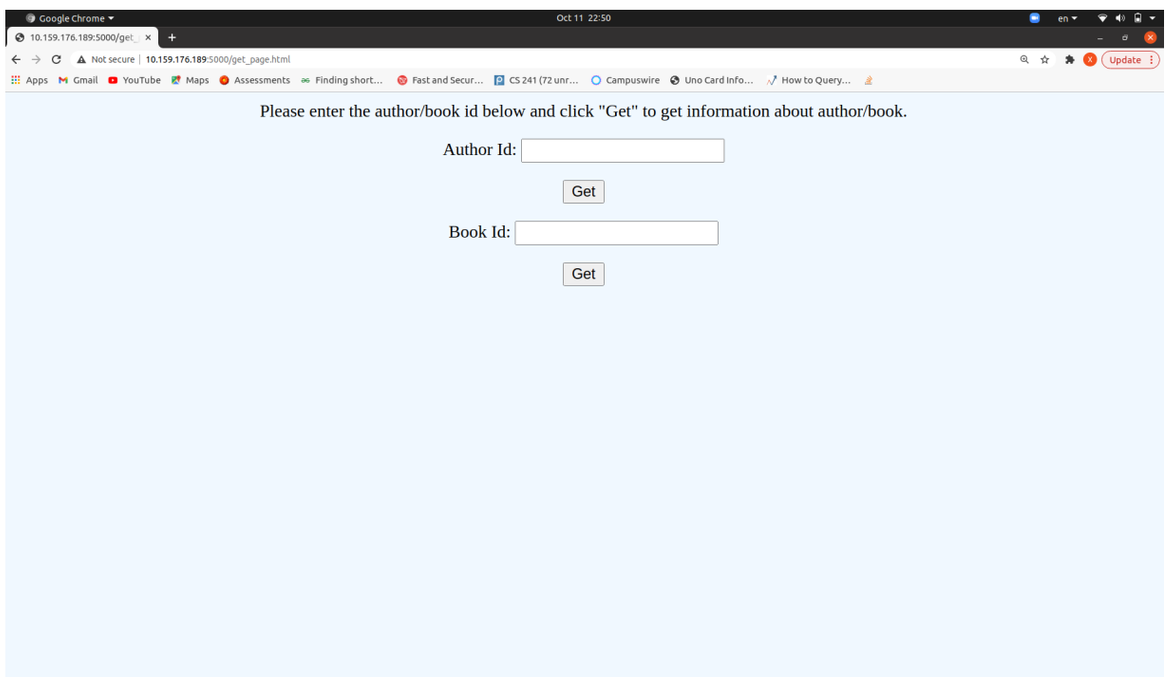
Test 1 - GET requests

Test 1.1 - Get author information by VALID id

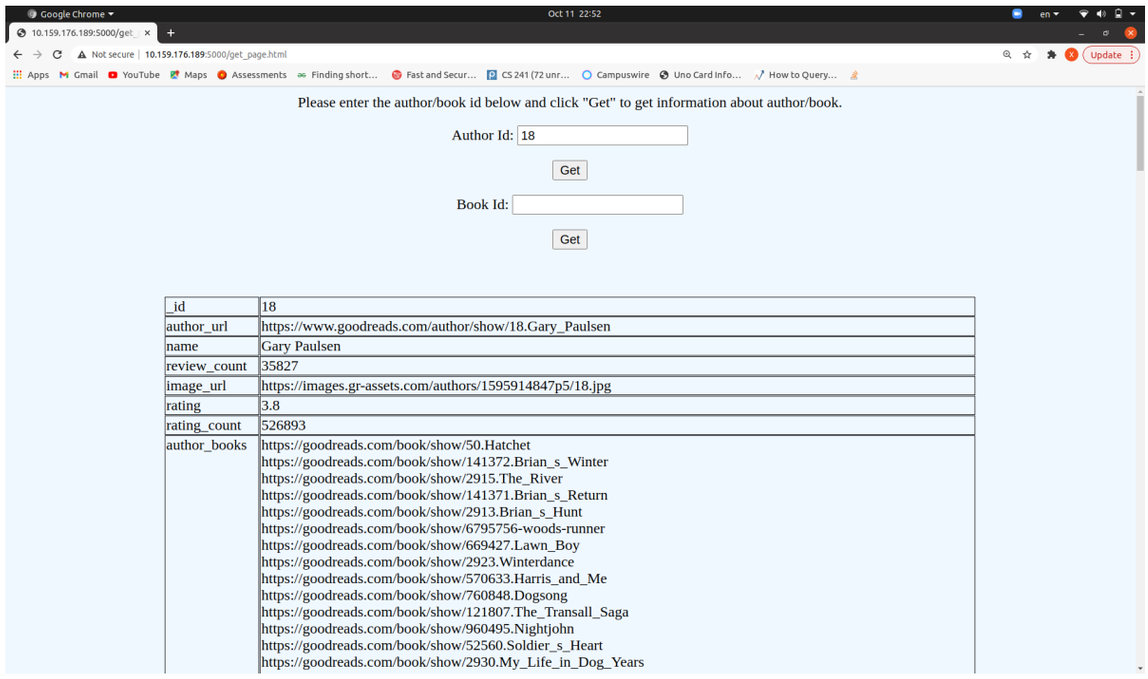
- First, run python3 api.py to launch the server

```
lei@lei-ROG-Strix-G531GW-G531GW:~/cs242-assignment2/fa21-cs242-assignment2$ python3 api.py
 * Serving Flask app 'api' (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: off
 * Running on all addresses.
   WARNING: This is a development server. Do not use it in a production deployment.
 * Running on http://10.159.176.189:5000/ (Press CTRL+C to quit)
```

- Then, open the browser and enter the address after “Running on” followed by “get_page.html”. For example, the address for the screenshot shown above should be http://10.159.176.189:5000/get_page.html
- You should see a page like the one shown below



- Enter a valid id and click get. Then you should see info for the id you entered.



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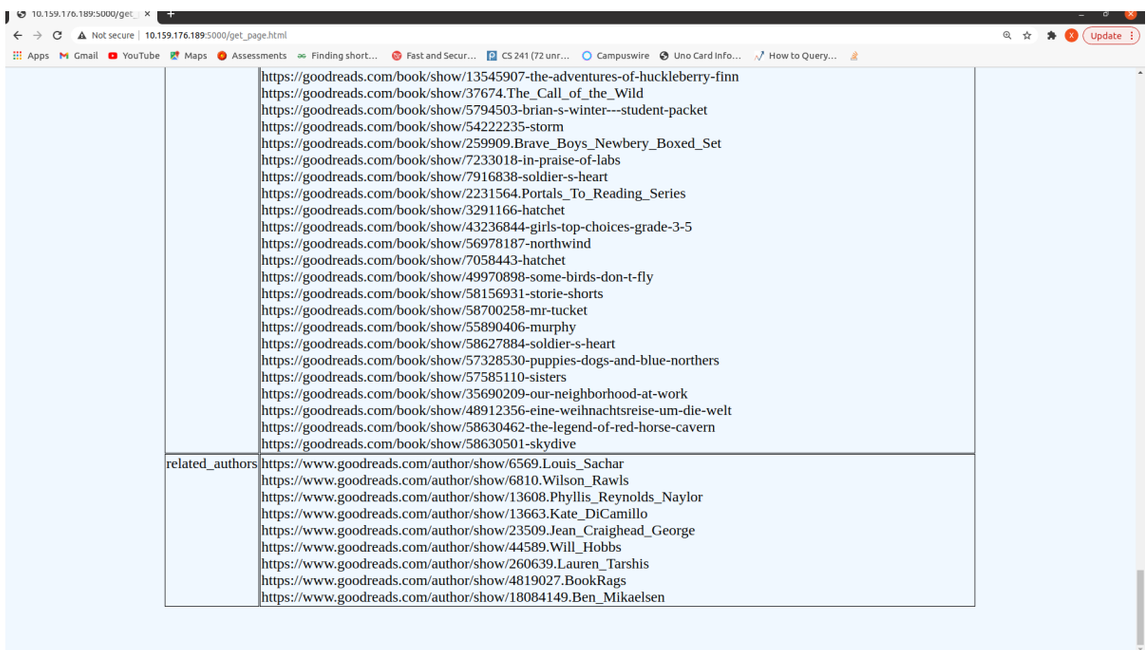
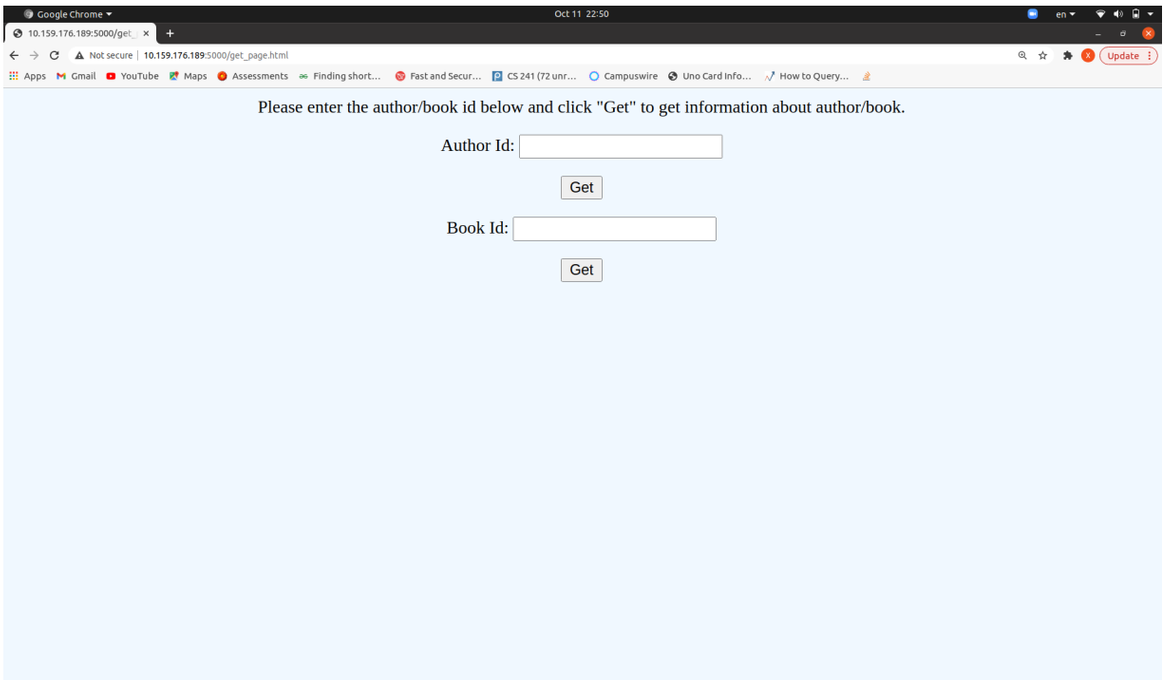
author_url	https://www.goodreads.com/author/show/18.Gary_Paulsen
name	Gary Paulsen
review_count	35827
image_url	https://images.gr-assets.com/authors/1595914847p5/18.jpg
rating	3.8
rating_count	526893
author_books	https://goodreads.com/book/show/50.Hatchet https://goodreads.com/book/show/141372.Brian_s_Winter https://goodreads.com/book/show/2915.The_River https://goodreads.com/book/show/141371.Brian_s_Return https://goodreads.com/book/show/2913.Brian_s_Hunt https://goodreads.com/book/show/6795756-woods-runner https://goodreads.com/book/show/669427.Lawn_Boy https://goodreads.com/book/show/2923.Winterdance https://goodreads.com/book/show/570633.Harris_and_Me https://goodreads.com/book/show/760848.Dogsong https://goodreads.com/book/show/121807.The_Transall_Saga https://goodreads.com/book/show/960495.Nightjohn https://goodreads.com/book/show/52560.Soldier_s_Heart https://goodreads.com/book/show/2930.My_Life_in_Dog_Years



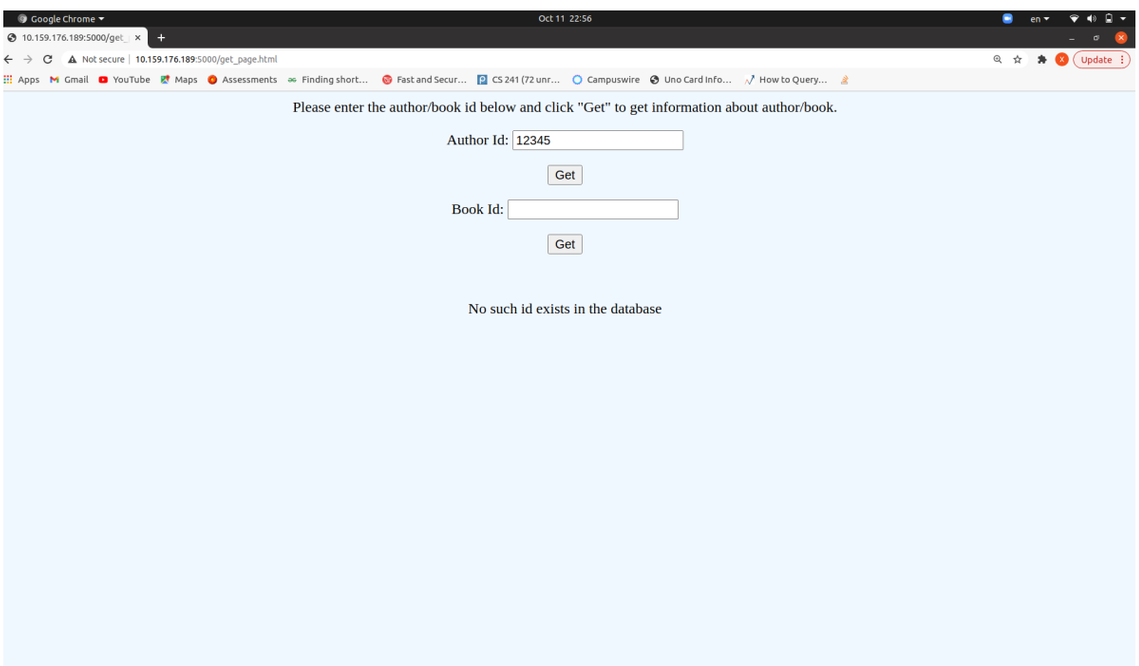
	https://goodreads.com/book/show/13545907-the-adventures-of-huckleberry-finn https://goodreads.com/book/show/37674.The_Call_of_the_Wild https://goodreads.com/book/show/5794503-brian-s-winter---student-packet https://goodreads.com/book/show/54222235-storm https://goodreads.com/book/show/259909.Brave_Boys_Newbery_Boxed_Set https://goodreads.com/book/show/7233018-in-praise-of-labs https://goodreads.com/book/show/7916838-soldier-s-heart https://goodreads.com/book/show/2231564.Portals_To_Reading_Series https://goodreads.com/book/show/3291166-hatchet https://goodreads.com/book/show/43236844-girls-top-choices-grade-3-5 https://goodreads.com/book/show/56978187-northwind https://goodreads.com/book/show/7058443-hatchet https://goodreads.com/book/show/49970898-some-birds-don-t-fly https://goodreads.com/book/show/58156931-storie-shorts https://goodreads.com/book/show/58700258-mr-tucket https://goodreads.com/book/show/55890406-murphy https://goodreads.com/book/show/58627884-soldier-s-heart https://goodreads.com/book/show/57328530-puppies-dogs-and-blue-northers https://goodreads.com/book/show/57585110-sisters https://goodreads.com/book/show/35690209-our-neighborhood-at-work https://goodreads.com/book/show/48912356-eine-weihnachtsreise-um-die-welt https://goodreads.com/book/show/58630462-the-legend-of-red-horse-cavern https://goodreads.com/book/show/58630501-skydive
related_authors	https://www.goodreads.com/author/show/6569.Louis_Sachar https://www.goodreads.com/author/show/6810.Wilson_Rawls https://www.goodreads.com/author/show/13608.Phyllis_Reynolds_Naylor https://www.goodreads.com/author/show/13663.Kate_DiCamillo https://www.goodreads.com/author/show/23509.Jean_Craighead_George https://www.goodreads.com/author/show/44589.Will_Hobbs https://www.goodreads.com/author/show/260639.Lauren_Tarshis https://www.goodreads.com/author/show/4819027.BookRags https://www.goodreads.com/author/show/18084149.Ben_Mikaelsen

Test 1.2 - Get author information by INVALID id

- The first steps are the same as Test 1.1

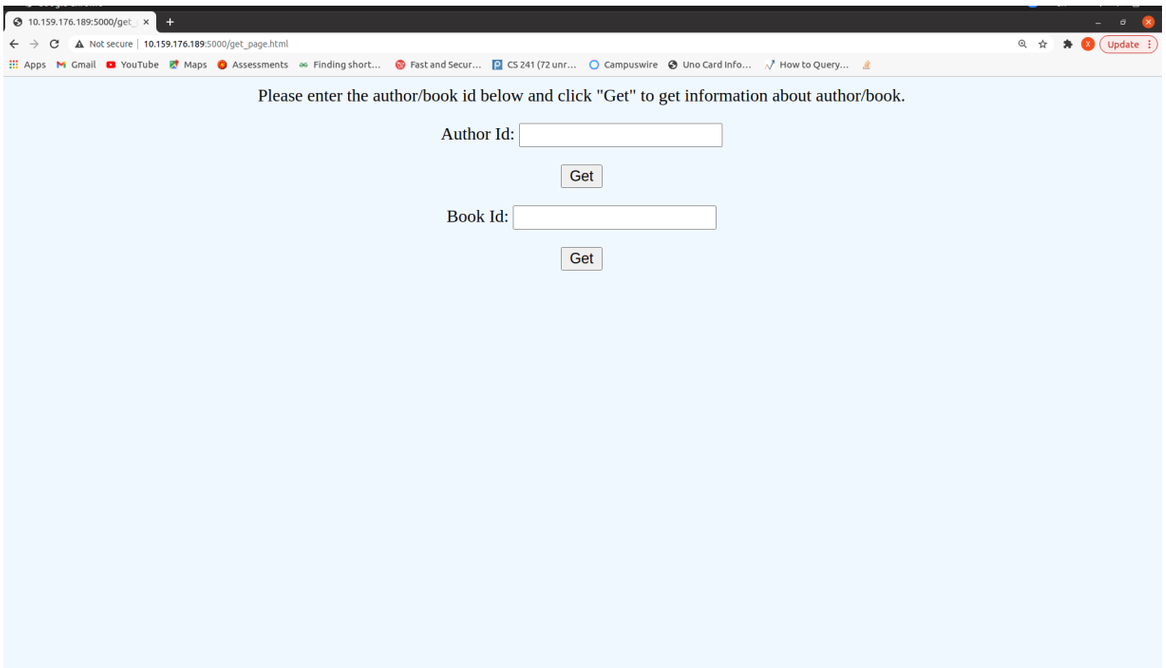


- After seeing the page shown above. Enter id and click Get to get information about the id you entered.
- If the id you entered does not exist in the database. You should see a message indicating that

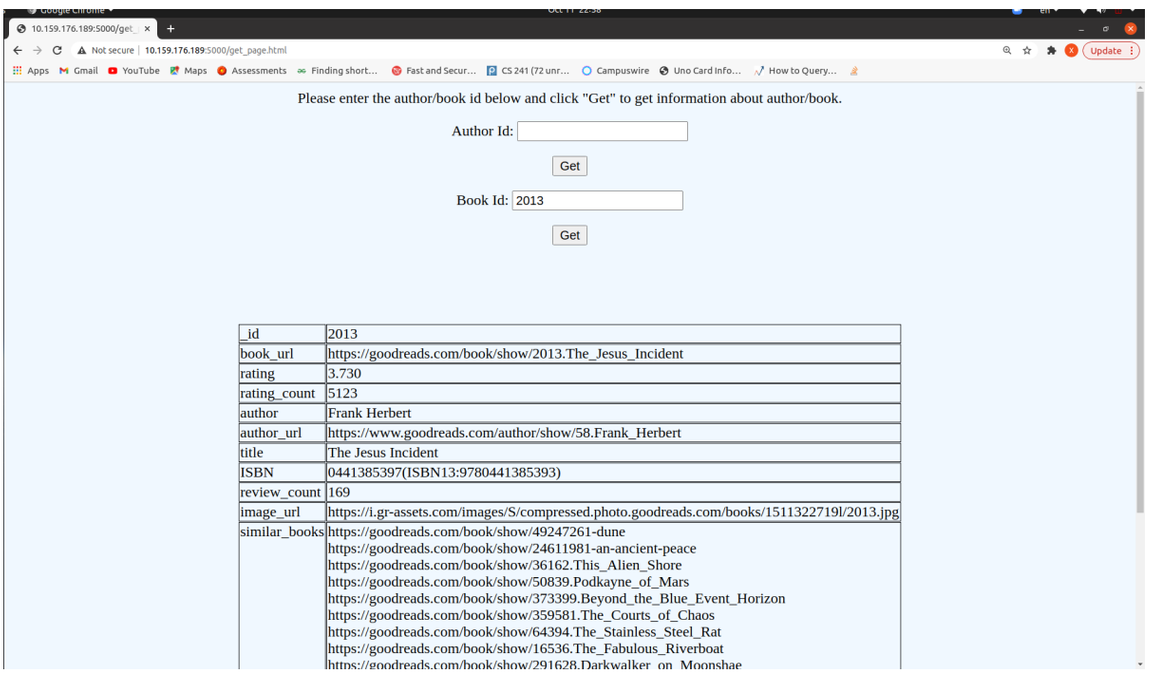


Test 1.3 - Get book information by VALID id

- The first steps are the same as Test 1.1



- After seeing the page shown above. Enter id and click Get to get information about the id you entered.
- If the id you entered is valid, you should see all book information about the id you entered



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rating_count	5123
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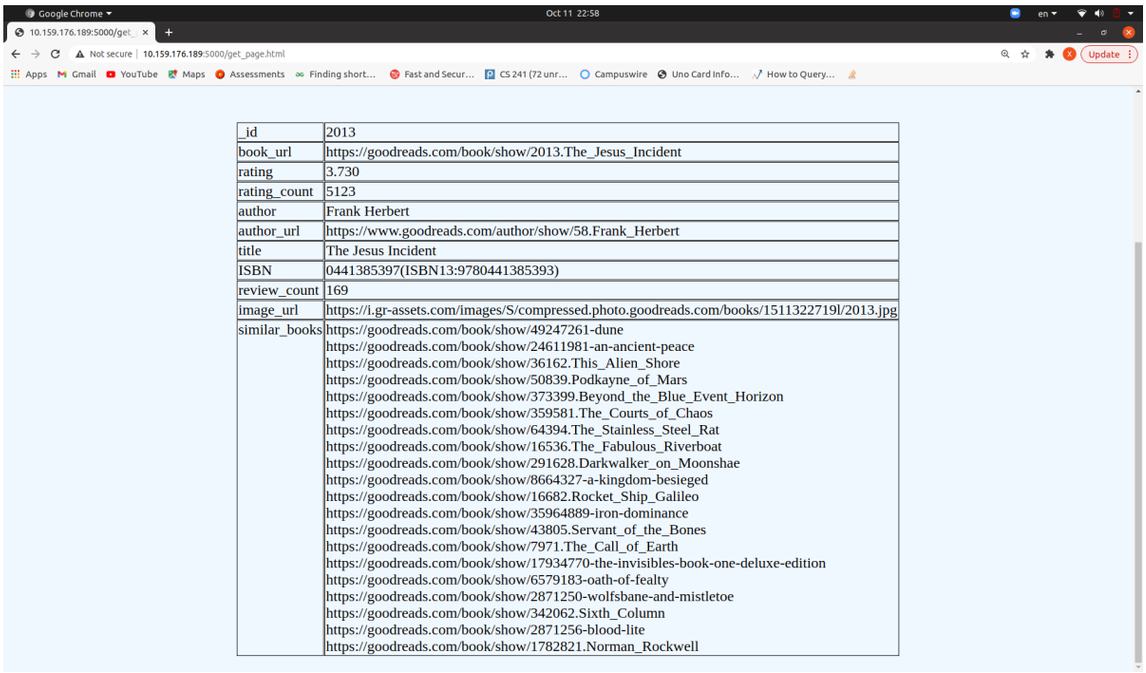
author_url	https://www.goodreads.com/author/show/58.Frank_Herbert
title	The Jesus Incident
ISBN	0441385397(ISBN13:9780441385393)
review_count	169
image_url	https://i.gr-assets.com/images/S/compressed.photo.goodreads.com/books/1511322719l/2013.jpg
similar_books	https://goodreads.com/book/show/49247261-dune https://goodreads.com/book/show/24611981-an-ancient-peace https://goodreads.com/book/show/36162.This_Alien_Shore https://goodreads.com/book/show/50839.Podkayne_of_Mars https://goodreads.com/book/show/373399.Beyond_the_Blue_Event_Horizon https://goodreads.com/book/show/359581.The_Courts_of_Chaos https://goodreads.com/book/show/64394.The_Stainless_Steel_Rat https://goodreads.com/book/show/16536.The_Fabulous_Riverboat https://goodreads.com/book/show/291628.Darkwalker_on_Moonshae



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rating	3.730
rating_count	5123
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title	The Jesus Incident
ISBN	0441385397(ISBN13:9780441385393)
review_count	169
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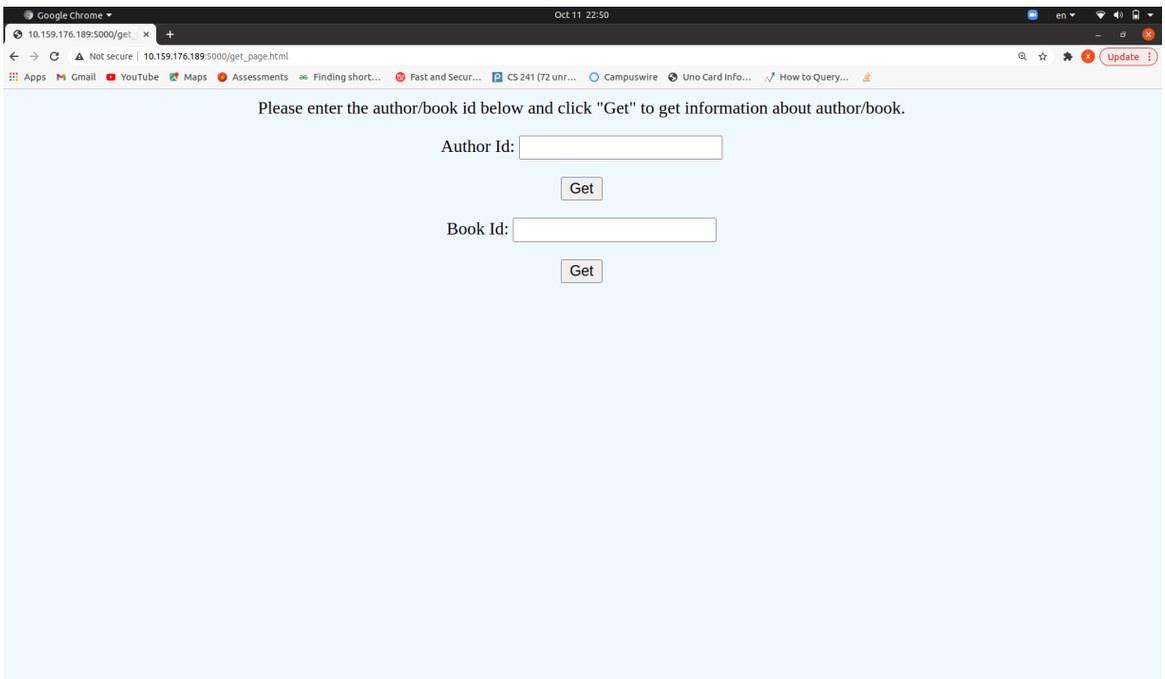
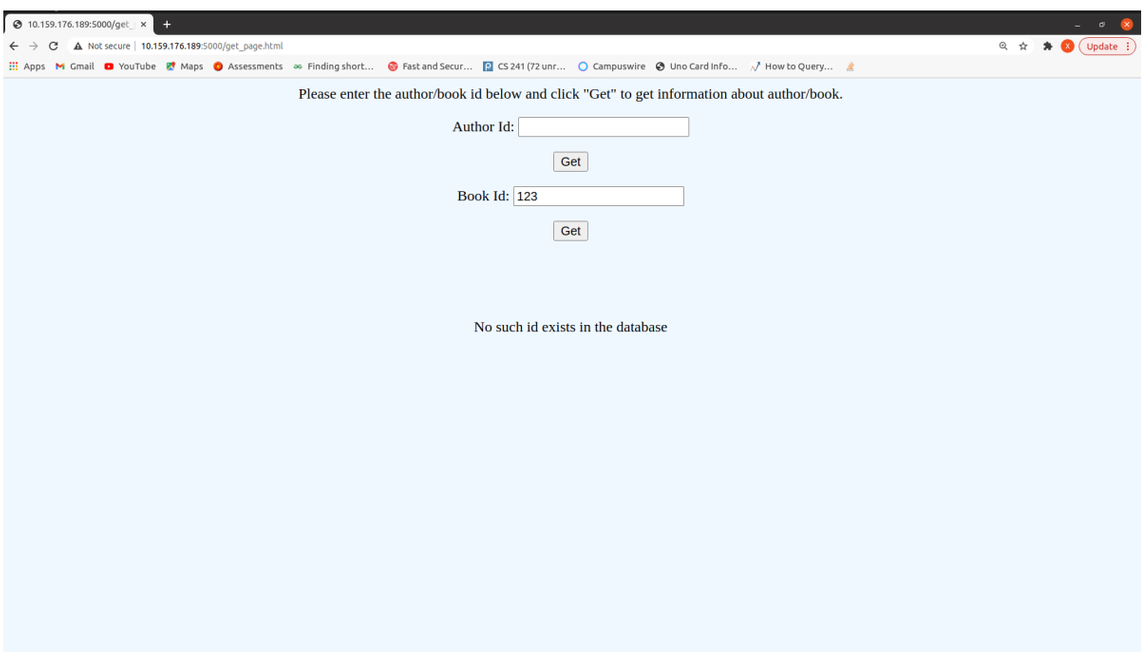
similar_books	https://goodreads.com/book/show/49247261-dune https://goodreads.com/book/show/24611981-an-ancient-peace https://goodreads.com/book/show/36162.This_Alien_Shore https://goodreads.com/book/show/50839.Podkayne_of_Mars https://goodreads.com/book/show/373399.Beyond_the_Blue_Event_Horizon https://goodreads.com/book/show/359581.The_Courts_of_Chaos https://goodreads.com/book/show/64394.The_Stainless_Steel_Rat https://goodreads.com/book/show/16536.The_Fabulous_Riverboat https://goodreads.com/book/show/291628.Darkwalker_on_Moonshae https://goodreads.com/book/show/8664327-a-kingdom-besieged https://goodreads.com/book/show/16682.Rocket_Ship_Galileo https://goodreads.com/book/show/35964889-iron-dominance https://goodreads.com/book/show/43805.Servant_of_the_Bones https://goodreads.com/book/show/7971.The_Call_of_Earth https://goodreads.com/book/show/17934770-the-invisibles-book-one-deluxe-edition https://goodreads.com/book/show/6579183-oath-of-fealty https://goodreads.com/book/show/2871250-wolfsbane-and-mistletoe https://goodreads.com/book/show/342062.Sixth_Column https://goodreads.com/book/show/2871256-blood-lite https://goodreads.com/book/show/1782821.Norman_Rockwell

Test 1.4 - Get book information by INVALID id

- The first steps are the same as Test 1.1



- After seeing the page shown above. Enter id and click Get to get information about the id you entered.
- If the id you entered does not exist in the database. You should see a message indicating that



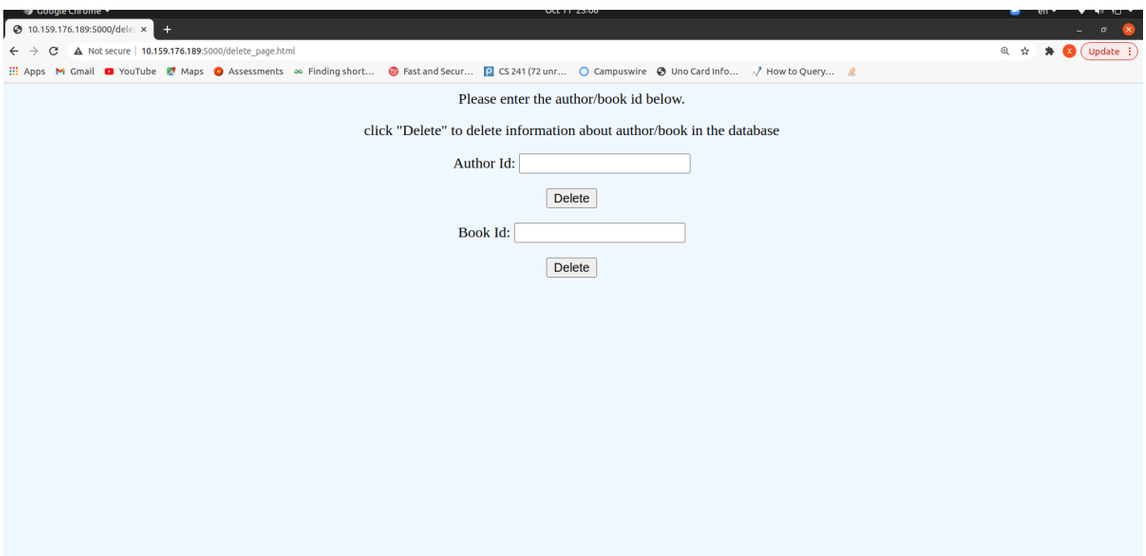
Test 2 - DELETE requests

Test 2.1 - Delete author information by VALID id

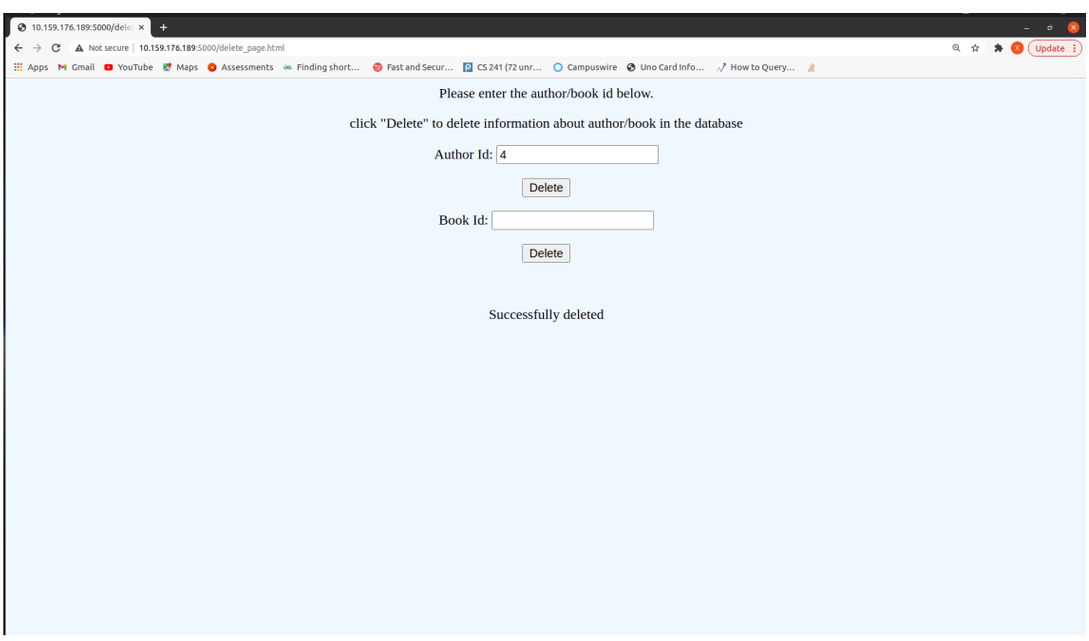
- First, run python3 api.py to launch the server

```
lei@lei-ROG-Strix-G531GW-G531GW:~/cs242-assignment2/fa21-cs242-assignment2$ python3 api.py
 * Serving Flask app 'api' (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: off
 * Running on all addresses.
   WARNING: This is a development server. Do not use it in a production deployment.
 * Running on http://10.159.176.189:5000/ (Press CTRL+C to quit)
```

- Then, open the browser and enter the address after “Running on” followed by “delete_page.html”. For example, the address for the screenshot shown above should be http://10.159.176.189:5000/delete_page.html
- You should see a page like the one shown below

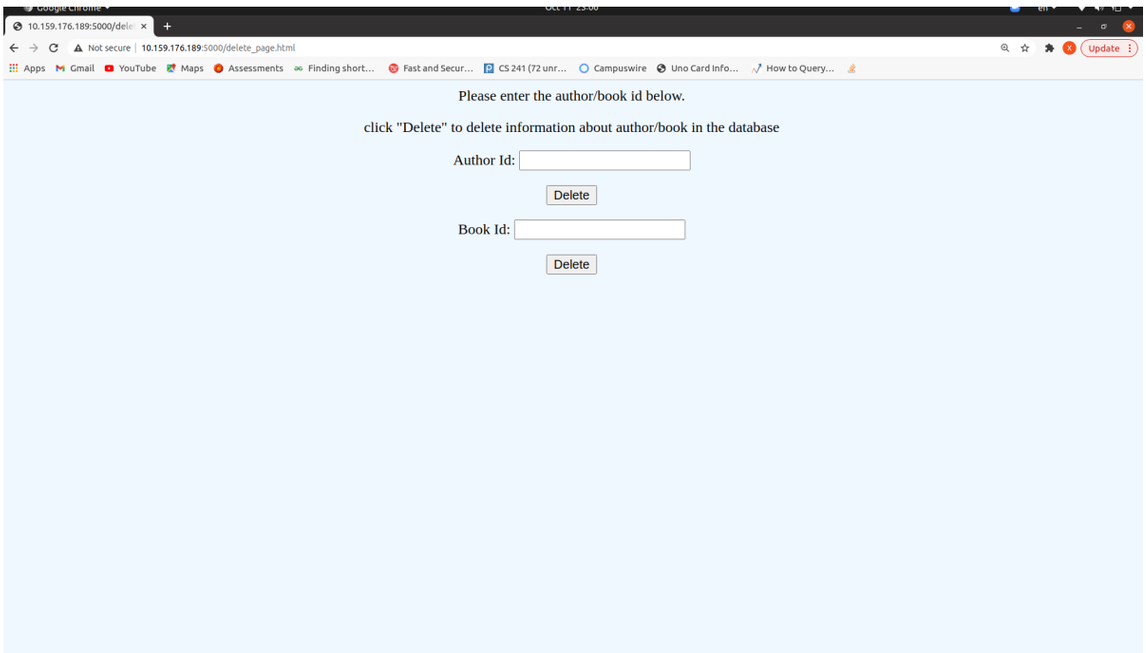


- Enter a valid author id and click Deletet=. Then you should see a message indicating the deletion is successful

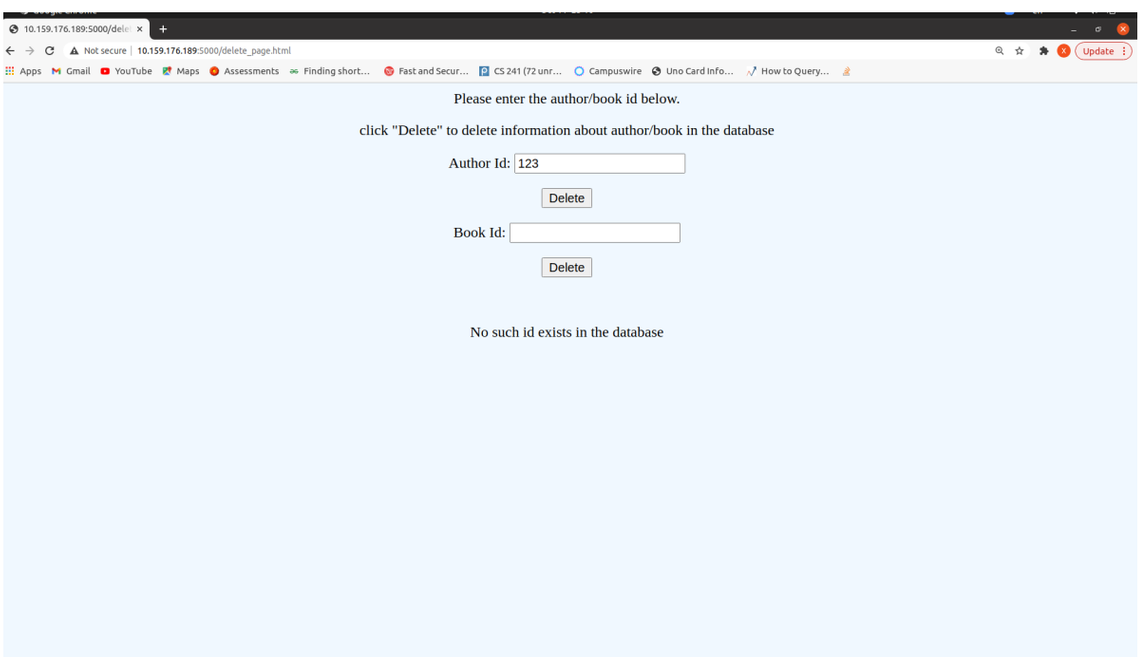


Test 2.2 - Delete author information by INVALID id

- The first steps are the same as Test 2.1

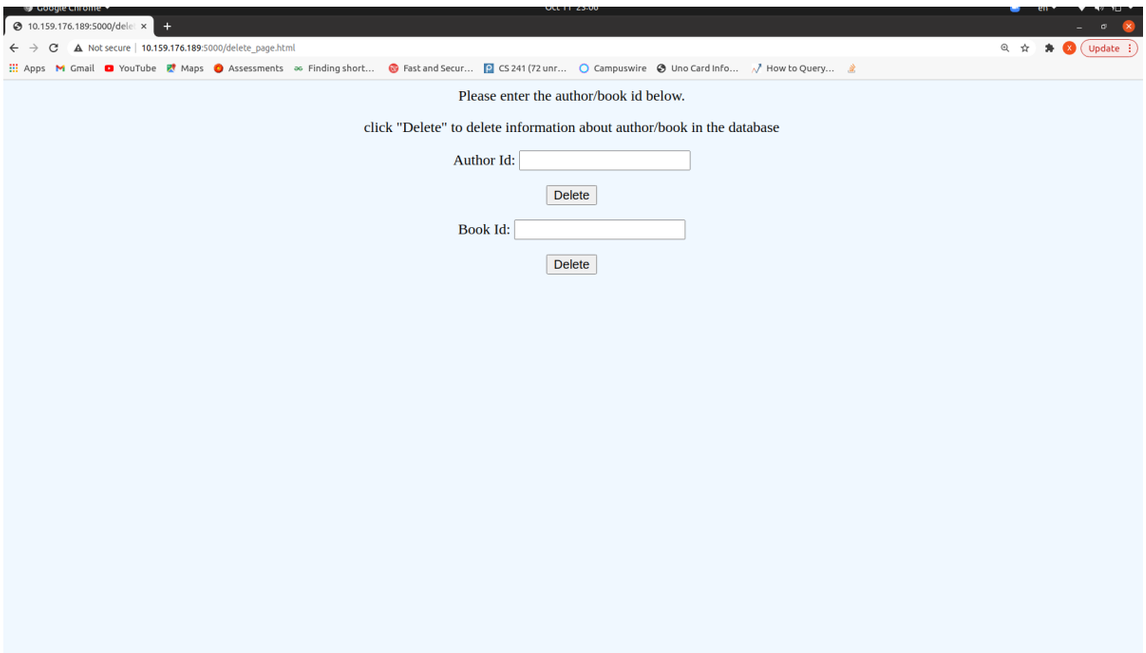


- After seeing the page shown above. Enter author id and click Delete
- If the id you entered does not exist in the database. You should see a message indicating that

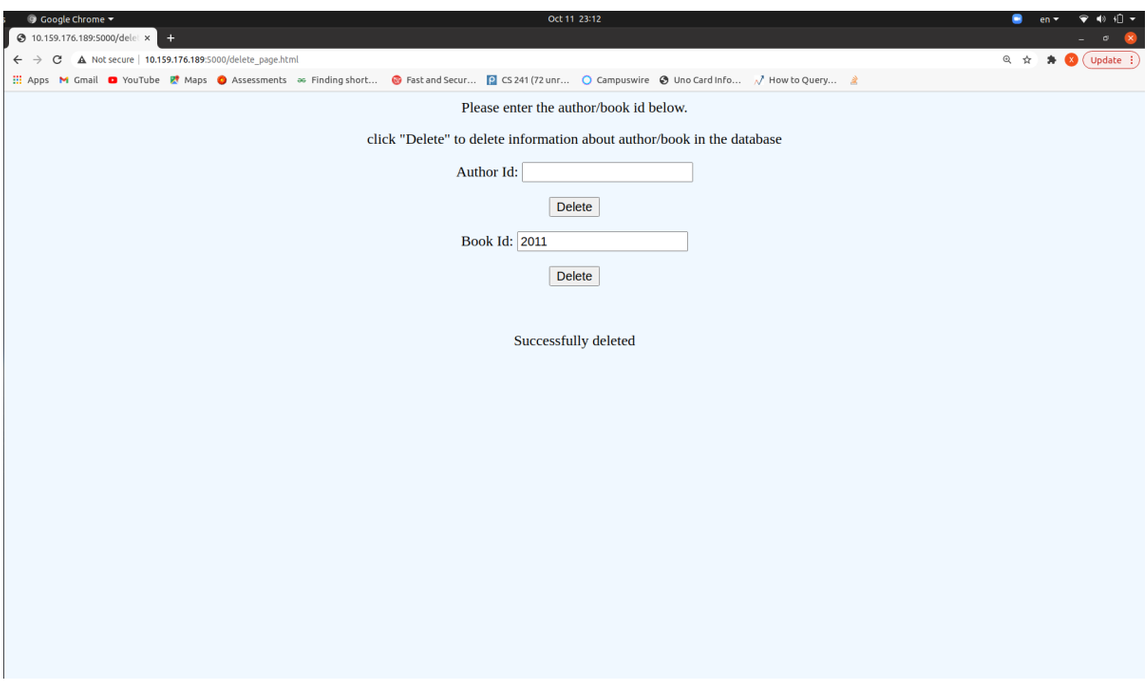


Test 2.3 - Delete book information by VALID id

- The first steps are the same as Test 2.1

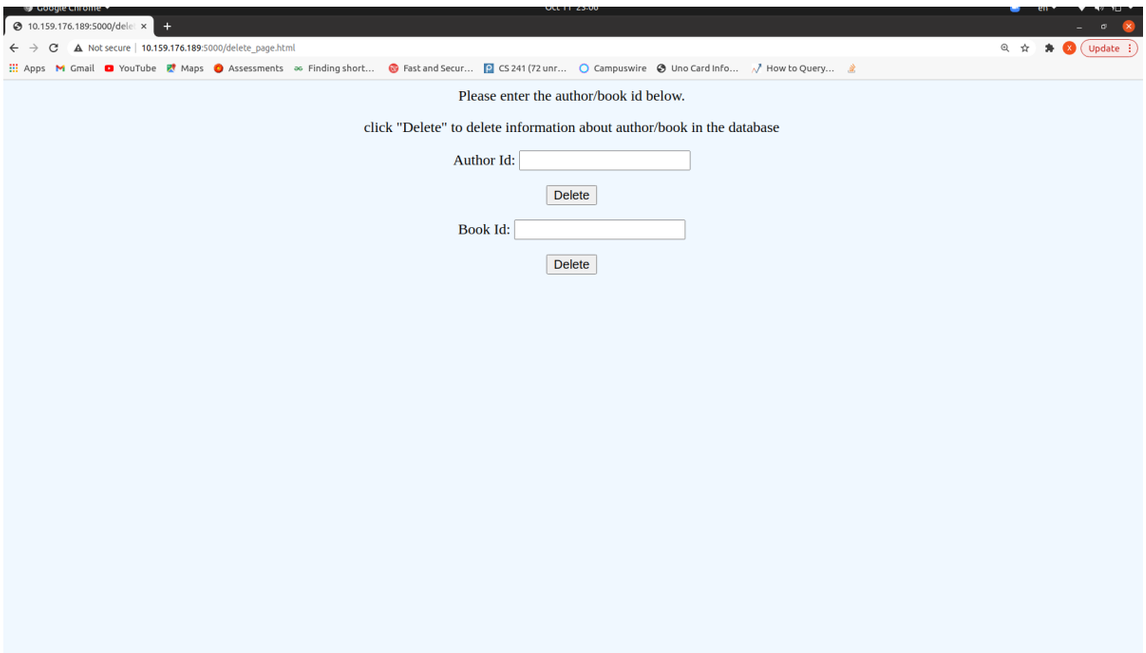


- After seeing the page shown above. Enter book id and click Delete
- If the id you entered is valid, you should see a message about successful deletion

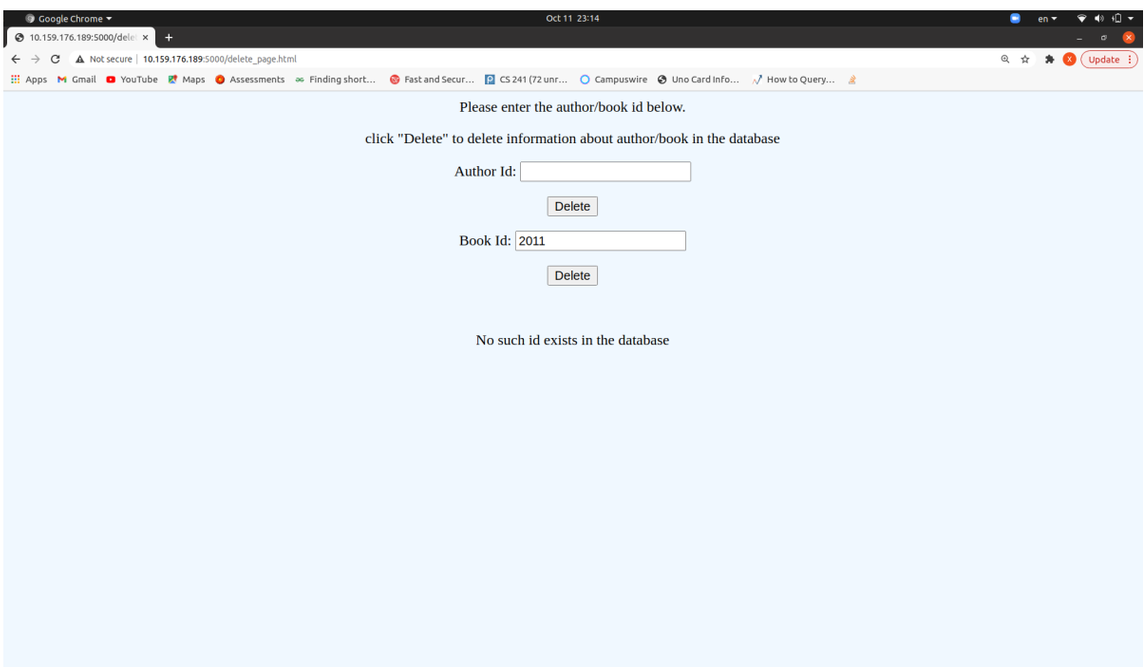


Test 2.4 - Delete book information by INVALID id

- The first steps are the same as Test 2.1



- After seeing the page shown above. Enter book id and click Delete
- If the id you entered is valid, (here we are deleting the book with id 2011 again, which has already been deleted in Test 2.3), you should see a message indicating that



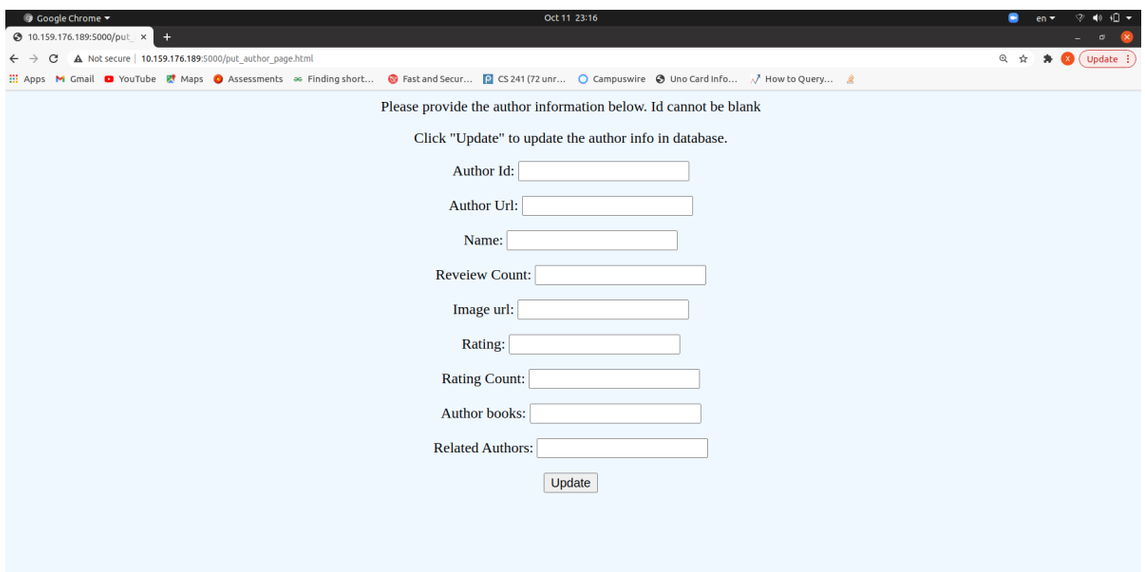
Test 3 - PUT requests

Test 3.1 - Put author information by VALID id

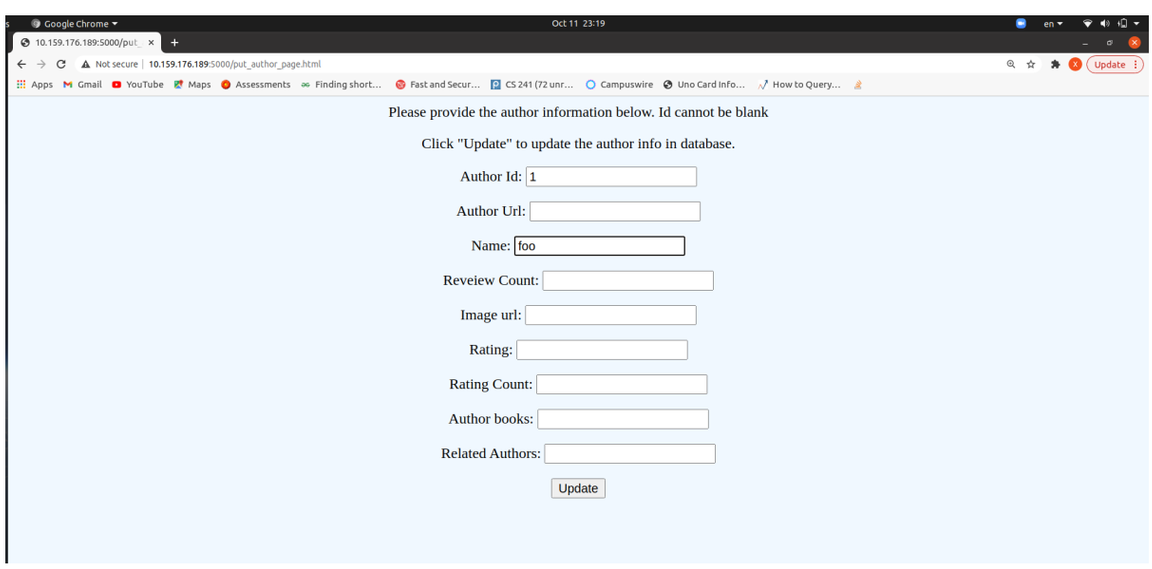
- First, run python3 api.py to launch the server

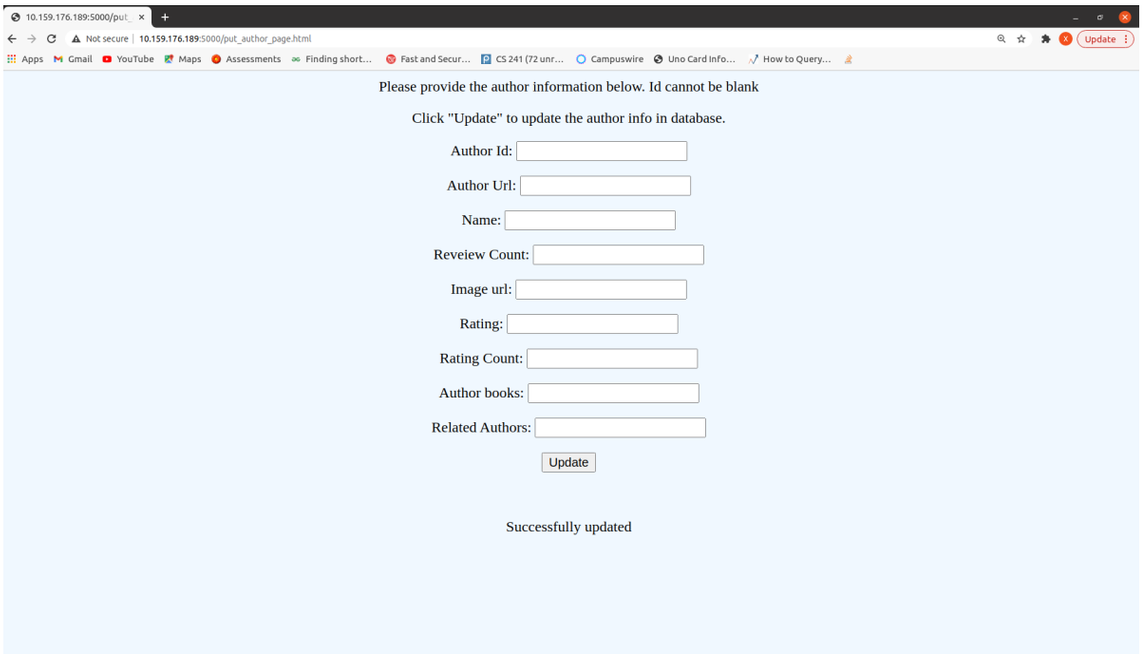
```
lei@lei-ROG-Strix-G531GW-G531GW:~/cs242-assignment2/fa21-cs242-assignment2$ python3 api.py
 * Serving Flask app 'api' (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: off
 * Running on all addresses.
   WARNING: This is a development server. Do not use it in a production deployment.
 * Running on http://10.159.176.189:5000/ (Press CTRL+C to quit)
```

- Then, open the browser and enter the address after “Running on” followed by “put_author_page.html”. For example, the address for the screenshot shown above should be http://10.159.176.189:5000/put_author_page.html
- You should see a page like the one shown below



- Enter a valid author id and some updates, then click Update. You should see a message indicating the update is successful





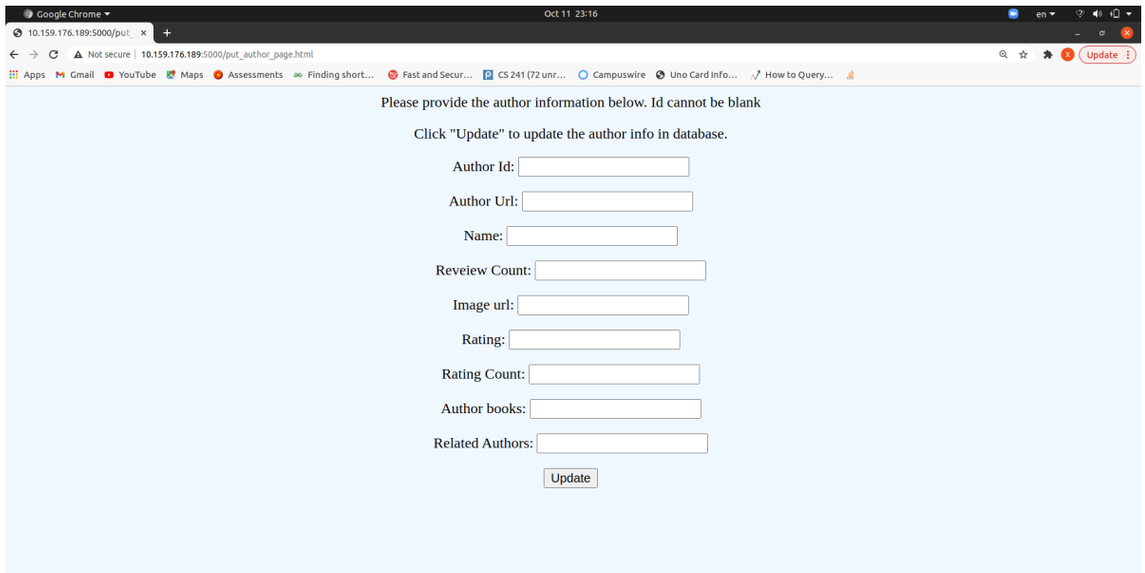
- Data in the database before and after update:

```
_id: "1"
name: "what"
author_url: "1"
review_count: "1"
image_url: "1"
rating: "1"
rating_count: "1"
author_books: "1"
related_authors: "1"
```

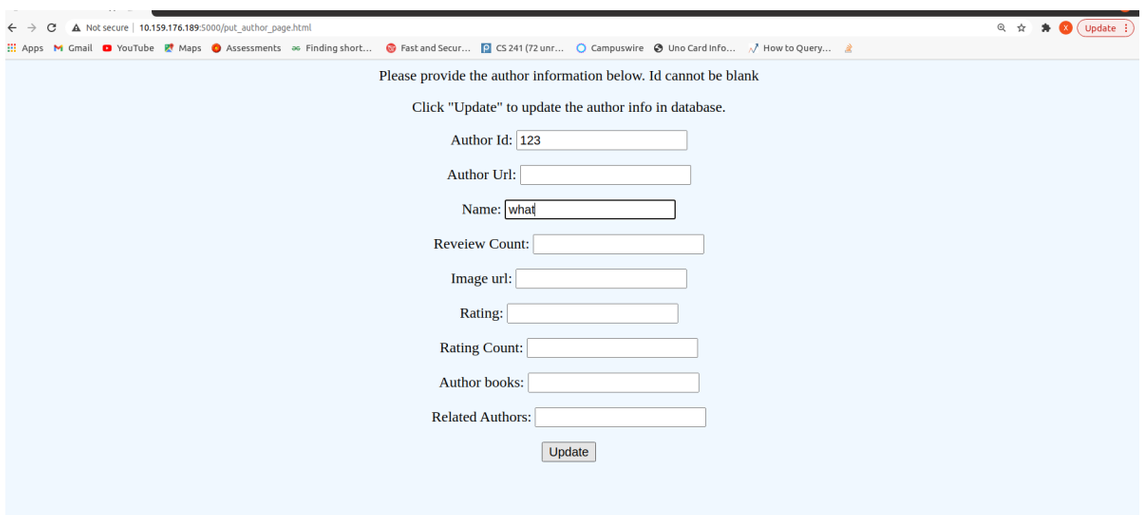
```
_id: "1"
name: "foo"
author_url: "1"
review_count: "1"
image_url: "1"
rating: "1"
rating_count: "1"
author_books: "1"
related_authors: "1"
```

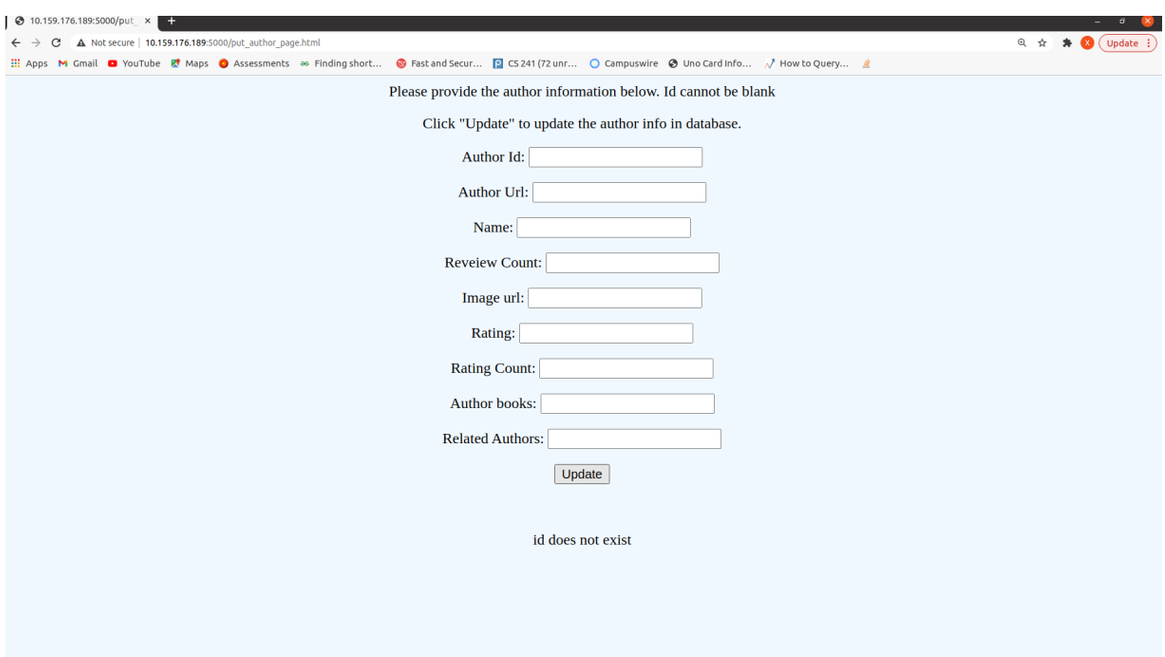
Test 3.2 - Put author information by INVALID id

- The first steps are the same as Test 3.1



- After seeing the page shown above. Enter author id and click Update
- If the id you entered does not exist, you should see a message indicating that



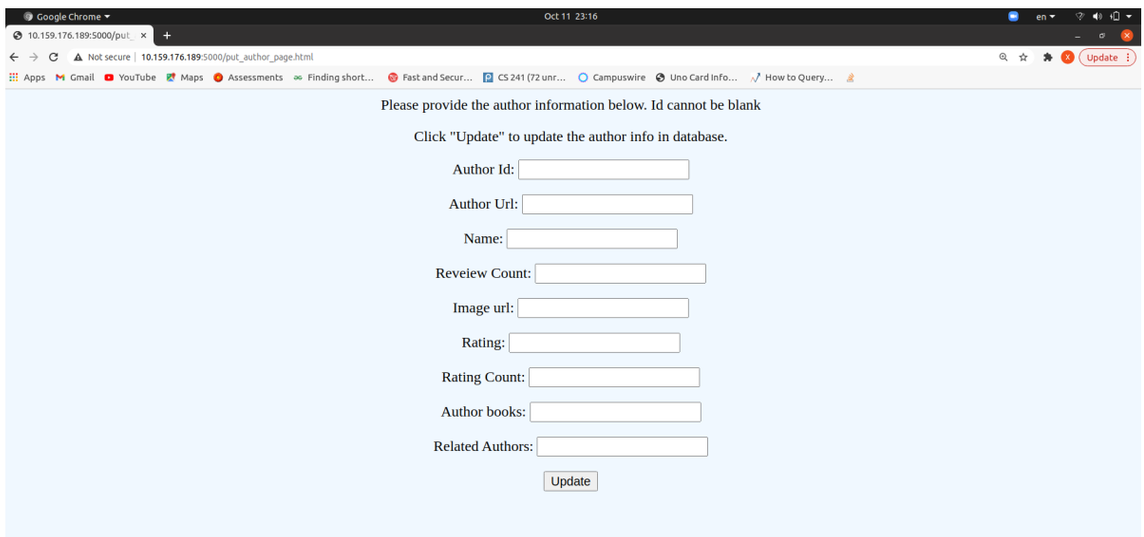


Test 3.3 - Put bok information by VALID id

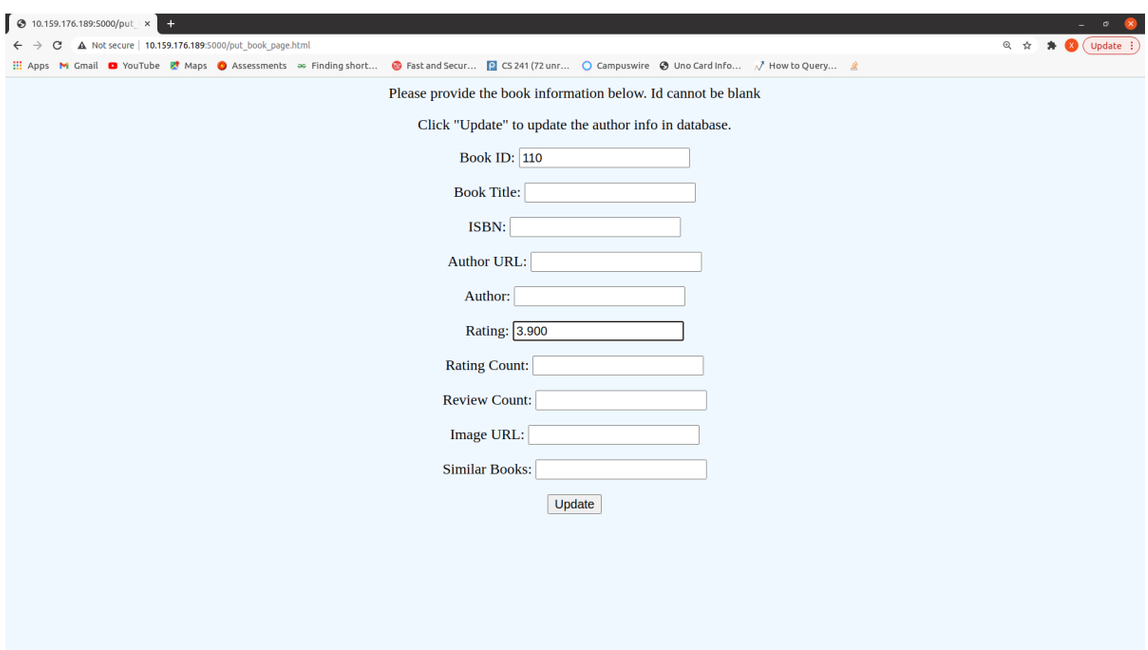
- First, run python3 api.py to launch the server

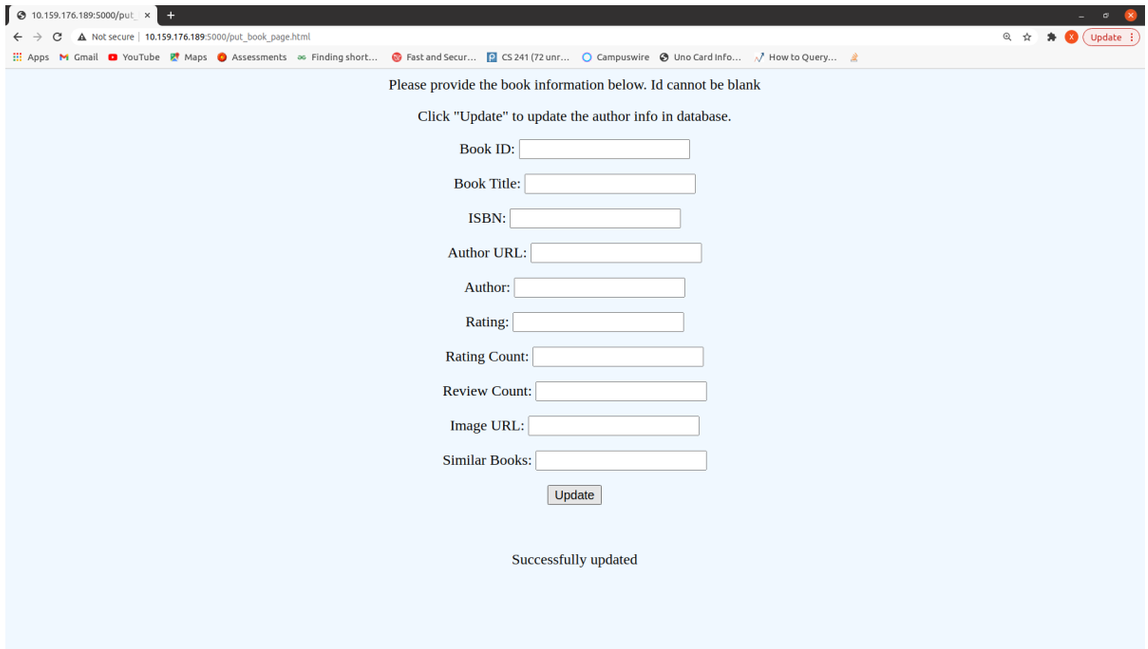
```
lei@lei-ROG-Strix-G531GW-G531GW:~/cs242-assignment2/fa21-cs242-assignment2$ python3 api.py
 * Serving Flask app 'api' (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: off
 * Running on all addresses.
   WARNING: This is a development server. Do not use it in a production deployment.
 * Running on http://10.159.176.189:5000/ (Press CTRL+C to quit)
```

- Then, open the browser and enter the address after “Running on” followed by “put_book_page.html”. For example, the address for the screenshot shown above should be http://10.159.176.189:5000/put_book_page.html
- You should see a page like the one shown below



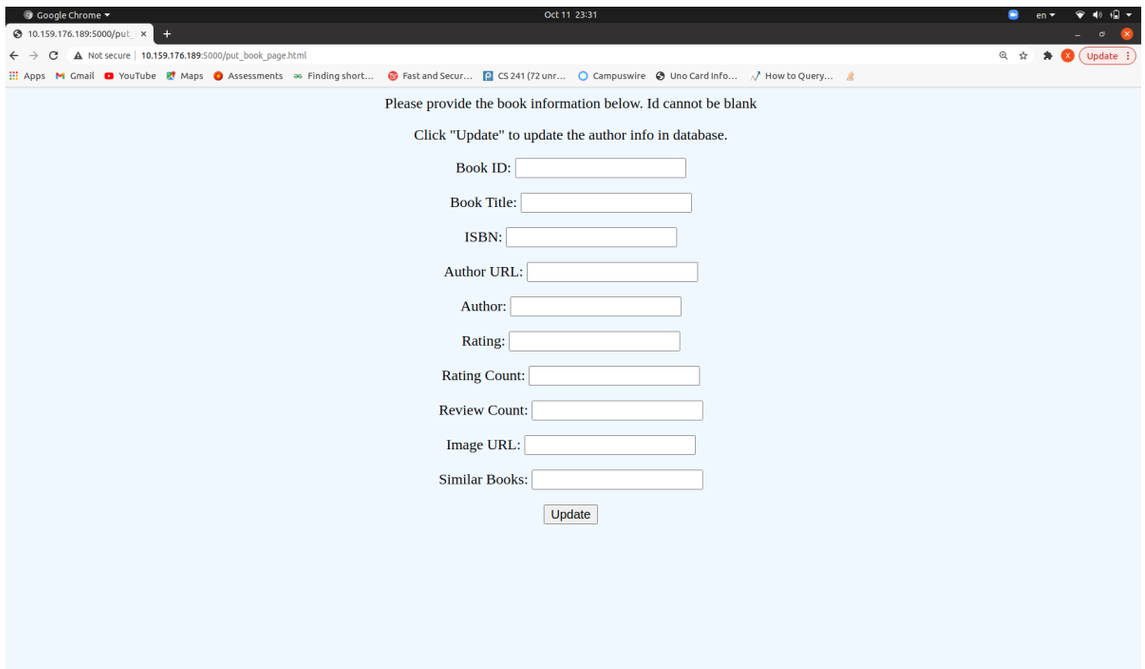
- Enter a valid author id and some updates, then click Update. You should see a message indicating the update is successful



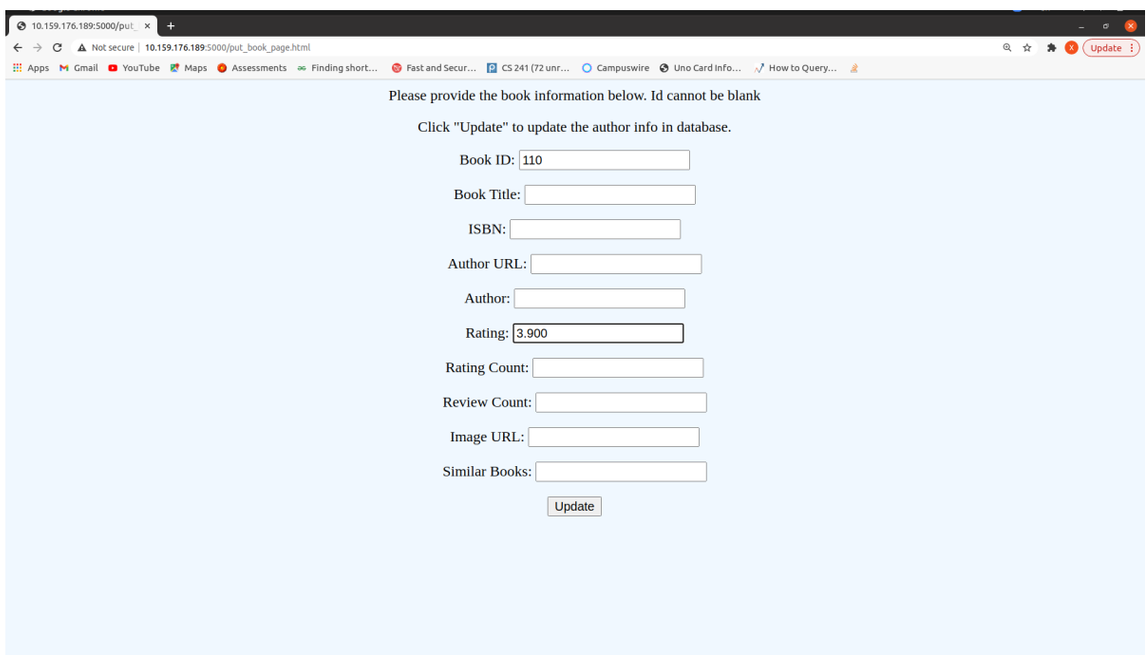

10.159.176.189:5000/put_
Not secure | 10.159.176.189:5000/put_book_page.html
Update
Apps Gmail YouTube Maps Assessments Finding short... Fast and Secur... CS 241 (72 unr... Campuswire Uno Card Info... How to Query...
Please provide the book information below. Id cannot be blank
Click "Update" to update the author info in database.
Book ID:
Book Title:
ISBN:
Author URL:
Author:
Rating:
Rating Count:
Review Count:
Image URL:
Similar Books:
Update
Successfully updated

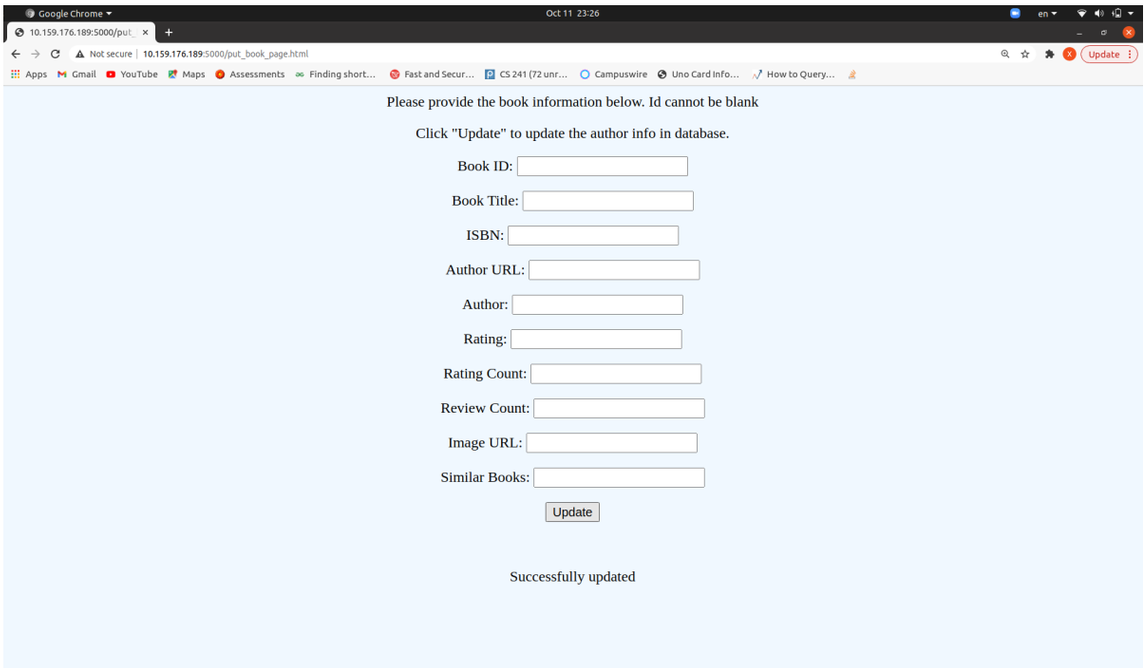
Test 3.4 - Put book information by INVALID id

- The first steps are the same as Test 3.3



- After seeing the page shown above. Enter book id and click Delete
- If the id you entered does not exist, you should see a message indicating that




Google Chrome
Oct 11 23:26
10.159.176.189:5000/put_
Not secure | 10.159.176.189:5000/put_book_page.html
Update
Apps
Gmail
YouTube
Maps
Assessments
Finding short...
Fast and Secur...
CS 241 (72 unr...
Campuswire
Uno Card Info...
How to Query...
Please provide the book information below. Id cannot be blank
Click "Update" to update the author info in database.
Book ID:
Book Title:
ISBN:
Author URL:
Author:
Rating:
Rating Count:
Review Count:
Image URL:
Similar Books:
Update
Successfully updated

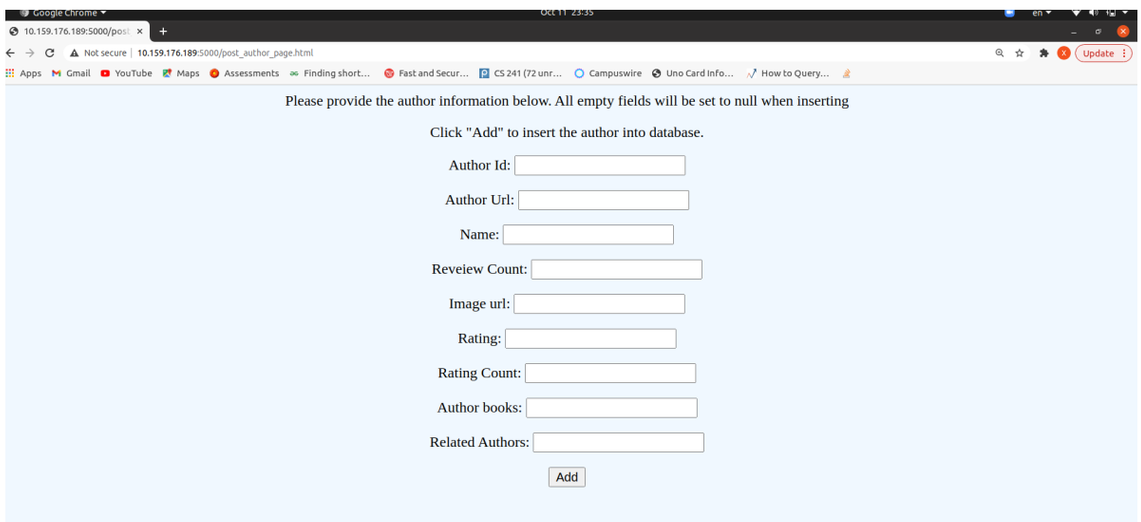
Test 4 - POST requests

Test 4.1 - Post author information by VALID id

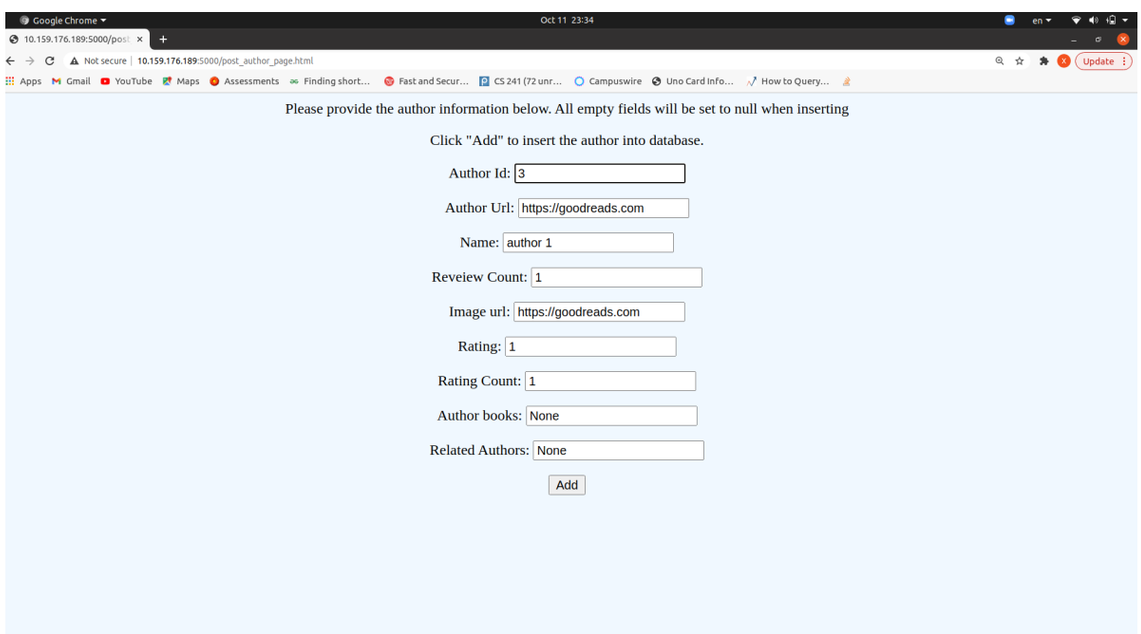
- First, run python3 api.py to launch the server

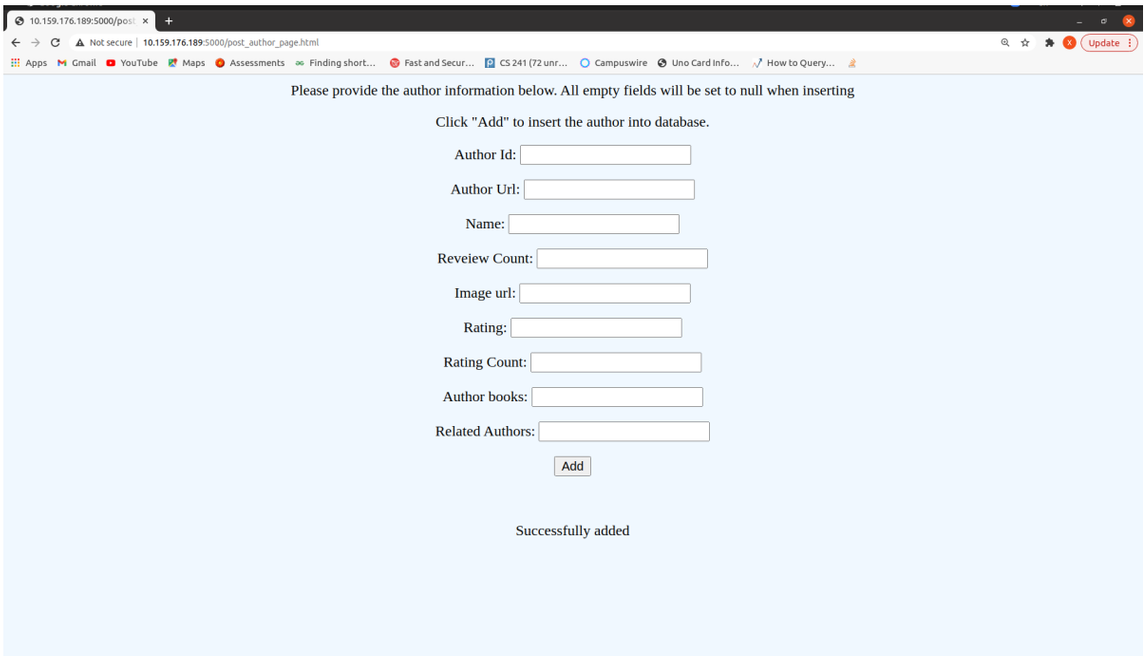
```
lei@lei-ROG-Strix-G531GW-G531GW:~/cs242-assignment2/fa21-cs242-assignment2$ python3 api.py
 * Serving Flask app 'api' (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: off
 * Running on all addresses.
   WARNING: This is a development server. Do not use it in a production deployment.
 * Running on http://10.159.176.189:5000/ (Press CTRL+C to quit)
```

- Then, open the browser and enter the address after “Running on” followed by “post_author_page.html”. For example, the address for the screenshot shown above should be http://10.159.176.189:5000/post_author_page.html
- You should see a page like the one shown below



- Enter a valid author id and all info, then click Add. You should see a message indicating the insertion is successful





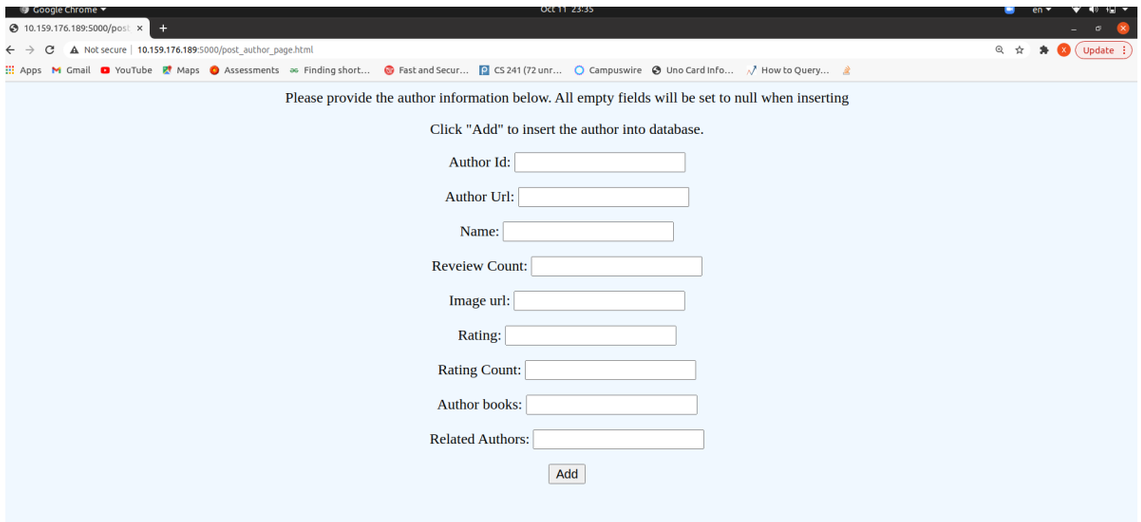
- Data in the database after POST request:

QUERY RESULTS 41-41 OF 41

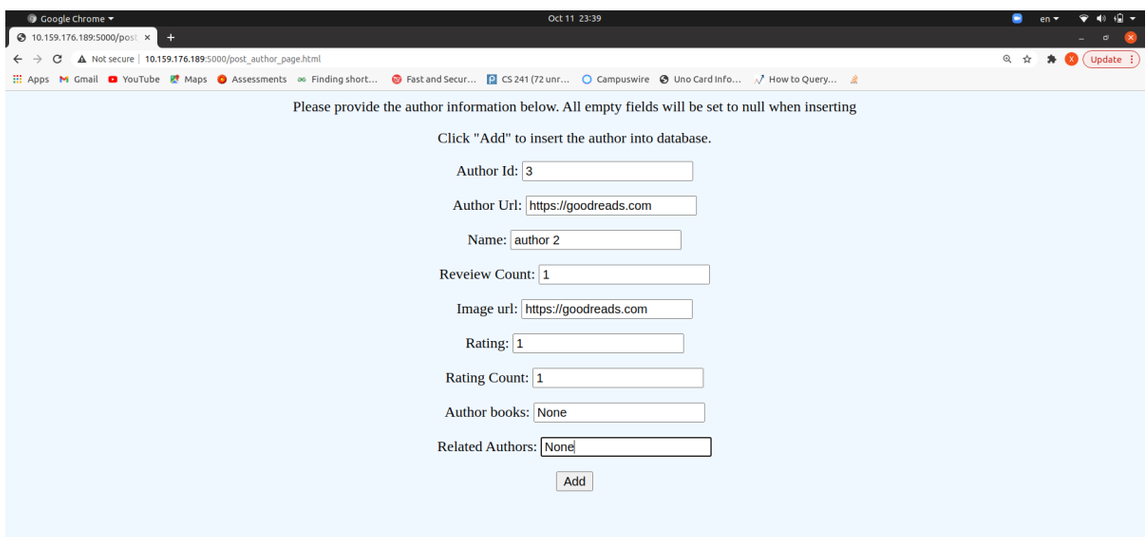

```
_id: "3"
name: "author 1"
author_url: "https://goodreads.com"
review_count: "1"
image_url: "https://goodreads.com"
rating: "1"
rating_count: "1"
author_books: "None"
related_authors: "None"
```

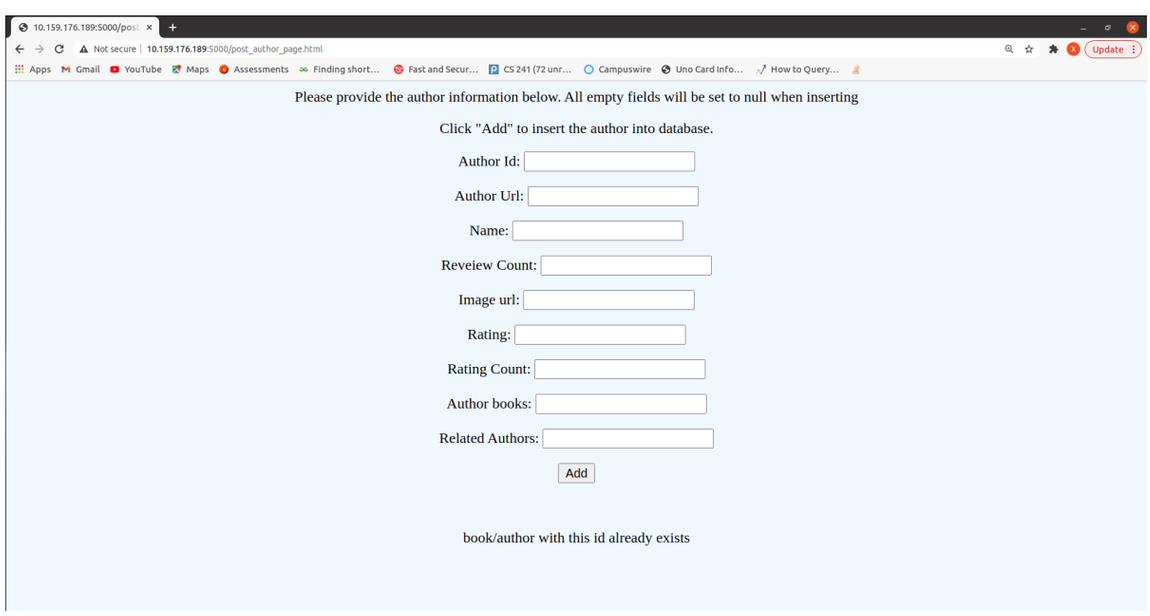
Test 4.2 - Post author information by INVALID id

- The first steps are the same as Test 4.1



- After seeing the page shown above. Enter author id, relevant info, and click Update
- If the id you entered already exists (we successfully inserted author with id 3 in Test 4.1), you should see a message indicating that



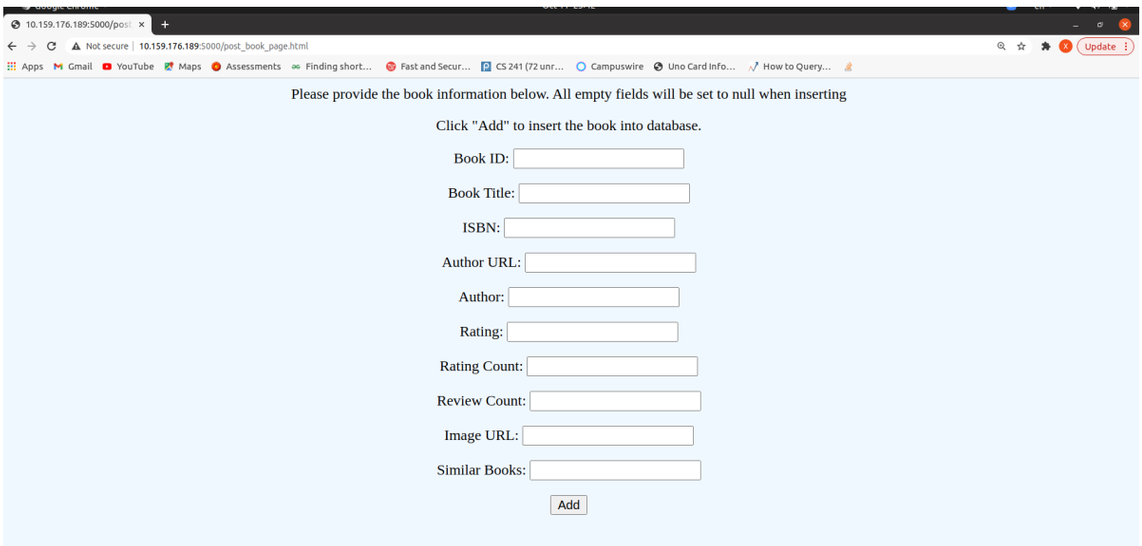


Test 4.3 - Post book information by VALID id

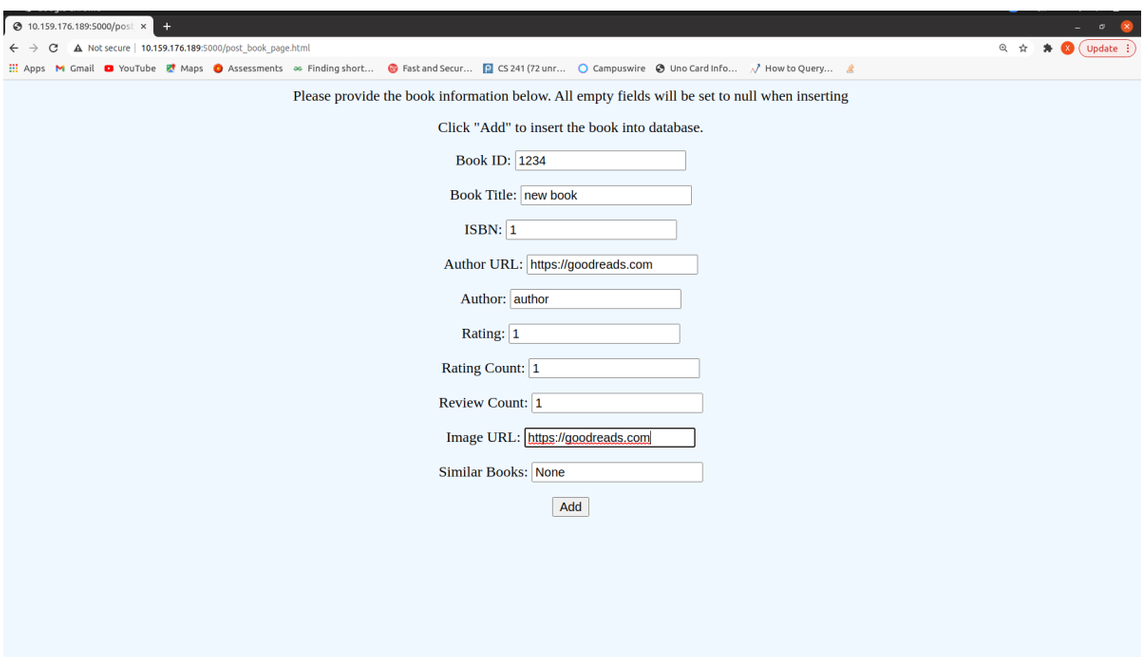
- First, run python3 api.py to launch the server

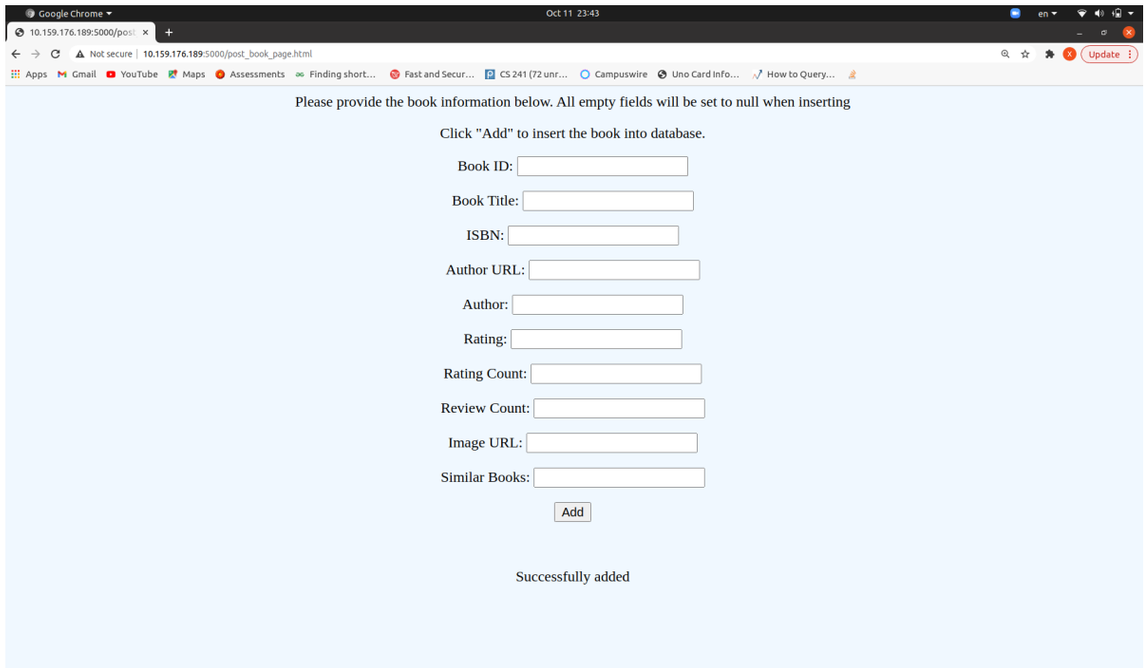
```
lei@lei-ROG-Strix-G531GW-G531GW:~/cs242-assignment2/fa21-cs242-assignment2$ python3 api.py
 * Serving Flask app 'api' (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: off
 * Running on all addresses.
   WARNING: This is a development server. Do not use it in a production deployment.
 * Running on http://10.159.176.189:5000/ (Press CTRL+C to quit)
```

- Then, open the browser and enter the address after “Running on” followed by “put_book_page.html”. For example, the address for the screenshot shown above should be http://10.159.176.189:5000/put_book_page.html
- You should see a page like the one shown below



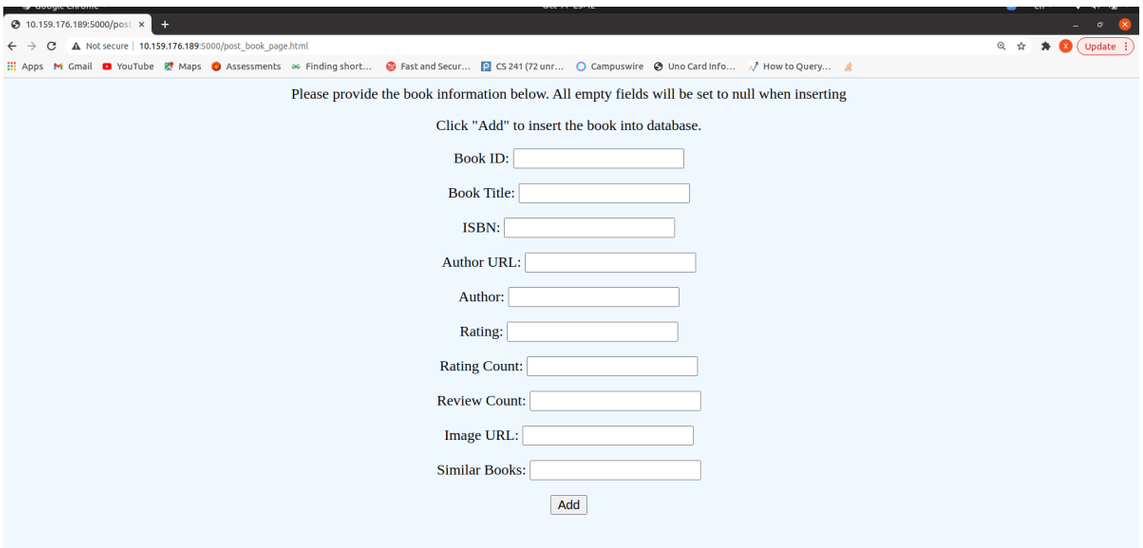
- Enter a valid author id and all info, then click Add. You should see a message indicating the insertion is successful



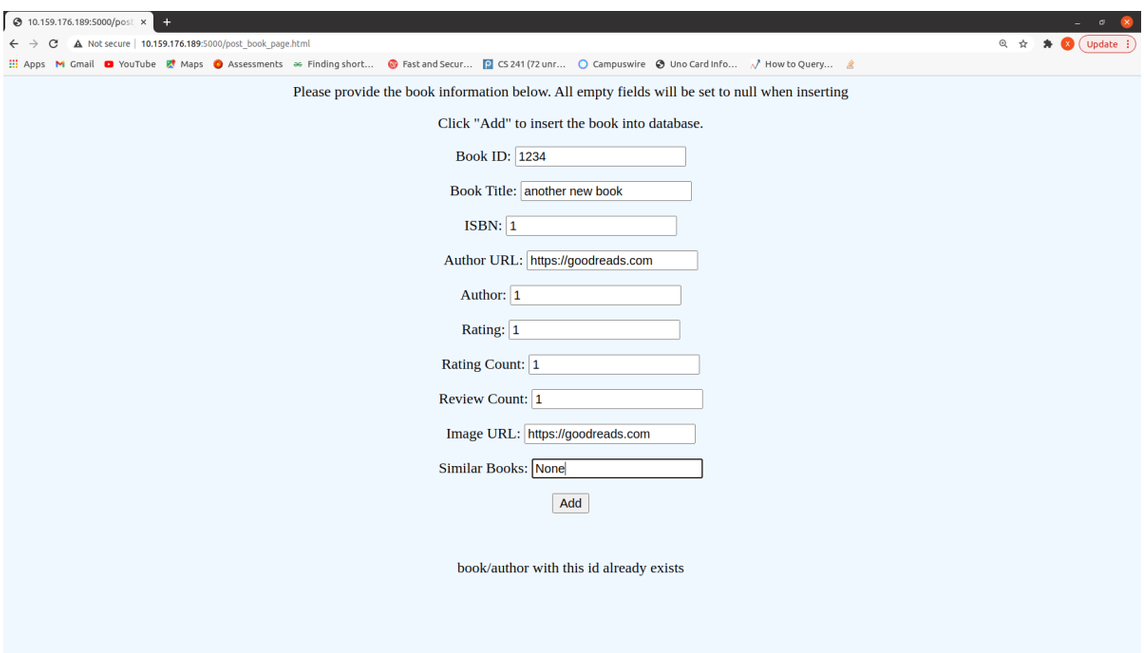

Google Chrome
Oct 11 23:43
10.159.176.189:5000/post
Not secure | 10.159.176.189:5000/post_book_page.html
Update
Apps
Gmail
YouTube
Maps
Assessments
Finding short...
Fast and Secur...
CS 241 (72 unr...
Campuswire
Uno Card Info...
How to Query...
Please provide the book information below. All empty fields will be set to null when inserting
Click "Add" to insert the book into database.
Book ID:
Book Title:
ISBN:
Author URL:
Author:
Rating:
Rating Count:
Review Count:
Image URL:
Similar Books:
Add
Successfully added

Test 4.4 - Post book information by INVALID id

- The first steps are the same as Test 4.3



- After seeing the page shown above. Enter book id, relevant info, and click Update
- If the id you entered already exists (we successfully inserted book with id 1234 in Test 4.3), you should see a message indicating that

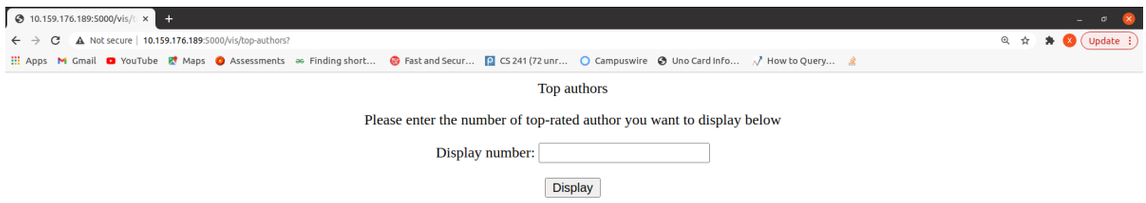


Test 5 - author visualization

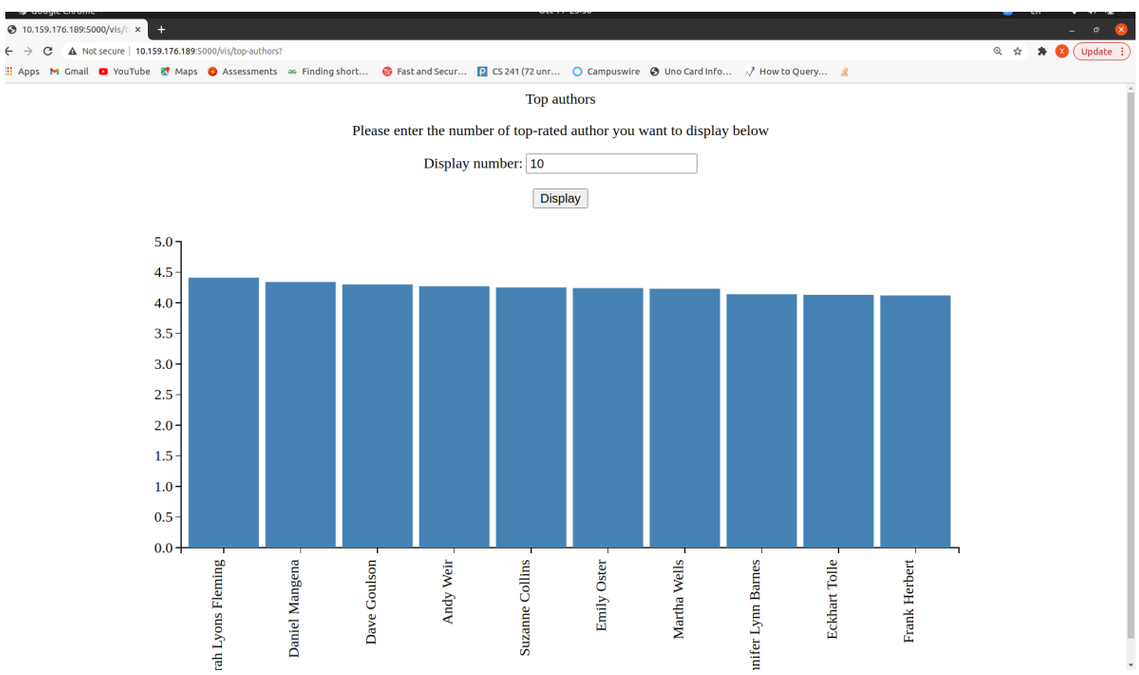
- First, run python3 api.py to launch the server

```
lei@lei-ROG-Strix-G531GW-G531GW:~/cs242-assignment2/fa21-cs242-assignment2$ python3 api.py
 * Serving Flask app 'api' (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: off
 * Running on all addresses.
   WARNING: This is a development server. Do not use it in a production deployment.
 * Running on http://10.159.176.189:5000/ (Press CTRL+C to quit)
```

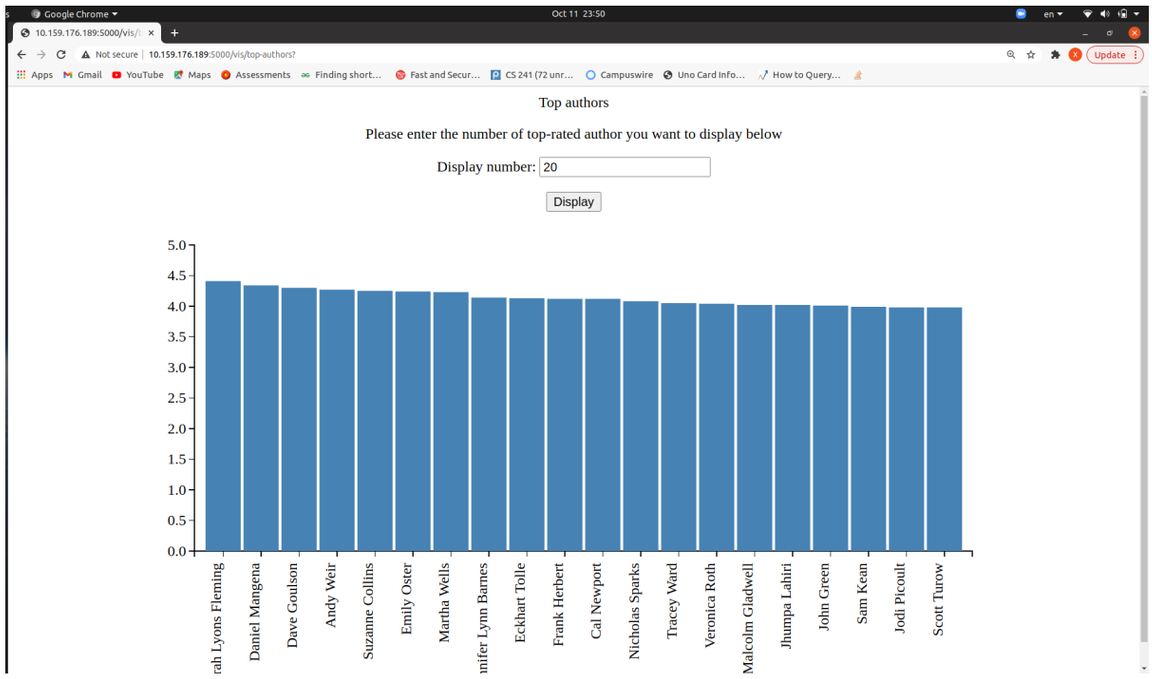
- Then, open the browser and enter the address after “Running on” followed by “vis/top-authors”. For example, the address for the screenshot shown above should be http://10.159.176.189:5000/vis/top-authors
- You should see a page like the one shown below



- Enter the number of top-rated author you want to display and then click display, you should see a bar plot



- The number of bars (authors) displayed should match the number you entered

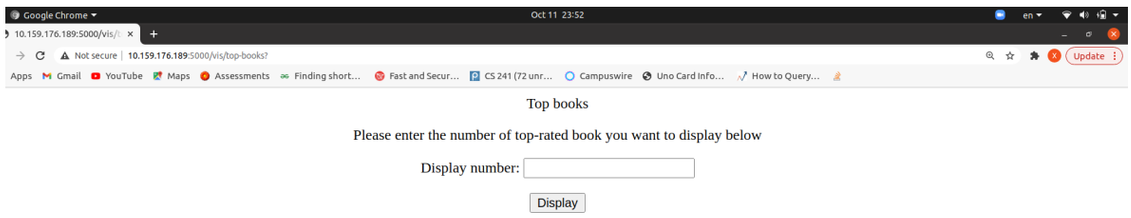


Test 6 - book visualization

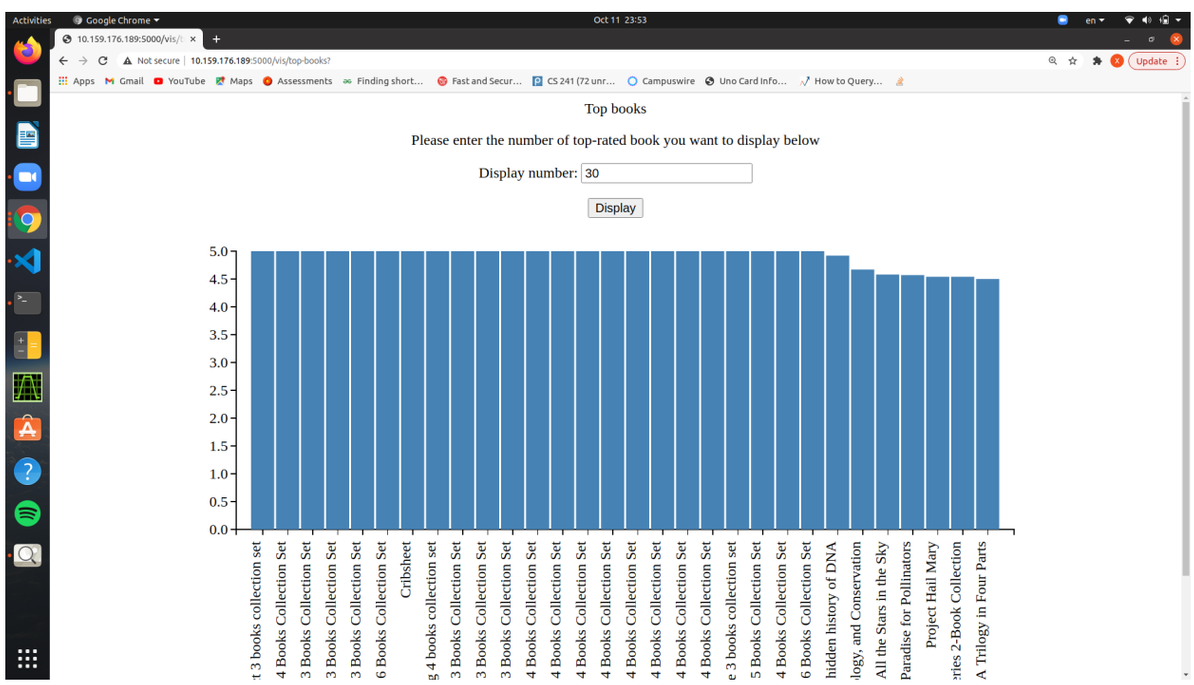
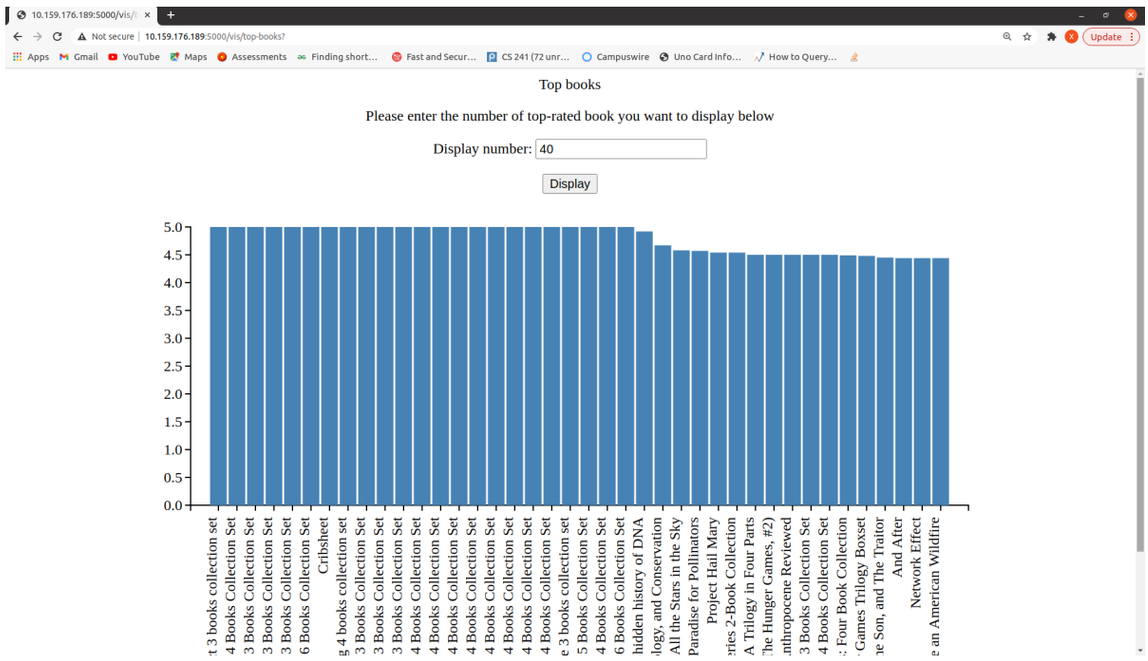
- First, run python3 api.py to launch the server

```
lei@lei-ROG-Strix-G531GW-G531GW:~/cs242-assignment2/fa21-cs242-assignment2$ python3 api.py
 * Serving Flask app 'api' (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: off
 * Running on all addresses.
   WARNING: This is a development server. Do not use it in a production deployment.
 * Running on http://10.159.176.189:5000/ (Press CTRL+C to quit)
```

- Then, open the browser and enter the address after “Running on” followed by “vis/top-books”. For example, the address for the screenshot shown above should be http://10.159.176.189:5000/vis/top-books
- You should see a page like the one shown below



- Enter the number of top-rated books you want to display and then click display, you should see a bar plot



- The number of bars (books) displayed should match the number you entered